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United States
Department of
Agriculture

Soil Conservation
Service

Beltsville, Maryland

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1980 Annual Technical Report of the National Plant Materials Center

A Summary of the Activities
of Calendar Year 1980

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THE
NATIONAL PLANT MATERIALS CENTER
1980 ANNUAL TECHNICAL REPORT

A SUMMARY OF THE ACTIVITIES
OF CALENDAR YEAR 1980

SOIL CONSERVATION SERVICE
U. S. DEPARTMENT OF AGRICULTURE
BELTSVILLE, MARYLAND

THE
NATIONAL PLANT MATERIALS CENTER
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OF CALENDAR YEAR 1980

SOIL CONSERVATION SERVICE
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National Plant Materials Center
Soil Conservation Service
United States Department of Agriculture

Introduction

1980 marked the 42nd year of service by the National Plant Materials Center to the Soil Conservation Service plant materials program as an introduction, exchange, and observation center for grasses, legumes, trees, and shrubs with potential value in soil and water conservation. All plant materials from foreign countries used in the SCS are processed through this center for initial seed increase and observation. An average of 300 new plant accessions per year are introduced through this center and distributed to 21 field plant materials centers throughout the United States, including Alaska, Hawaii, and Puerto Rico.

Only a few plants distributed from this center through the 21 field plant centers eventually are used to help the farmers, ranchers, cities, and urban communities solve the problems of watershed protection, gully control, shelter belts, wind-erosion control, wildlife borders, and surface mine-land reclamation.

Purpose and Objectives

The National Plant Materials Center at Beltsville, Maryland, is the central facility for assembling, increasing, and distributing plant materials from foreign sources that may be useful in helping to solve conservation problems established in the long-range program of the field plant materials centers.

Functions

- Requests, receives, assembles, and, as needed, increases seed and vegetative materials to meet requests of various field PMC's according to priorities established in the long-range program of each PMC.
- Works closely with the Plant Introduction Office, Germplasm Resources Laboratory, SEA, at Beltsville, Maryland, to obtain plant materials needed to fill requests of field PMC's.
- Serves as coordinator for the acquisition of all accessions from regional plant introduction stations for use by field PMC's.

- Works closely with the Plant Introduction Office, Germplasm Resources Laboratory, SEA, to insure compliance with quarantine restrictions governing the flow of plant materials in and out of the United States.
- Prepares background information about new plants and other plant materials assembled for distribution.
- Assembles and distributes seed and plants to meet foreign request.
- Acts as the coordinating office for plant accessioning and plant performance summaries for the plant materials automatic data processing (ADP) storage and retrieval system.
- Conducts special projects to help solve problems common to all of several PMC's, such as storage of seed and plants and development of propagation techniques.
- Maintains contacts for authoritative identification of plant specimens submitted by SCS personnel.
- Provides for the increase of plant materials for final testing if a field PMC is unable to produce adequate amounts.
- Provides project assistance to other PMC's when necessary to attain SCS goals.

Administration

The center is administered by the U. S. Department of Agriculture, Soil Conservation Service. Direction for the operation of the center is provided by an advisory committee appointed by the SCS Chief. It consists of the director of the Ecological Sciences Division, who serves as chairman; one state conservationist; one technical service center plant materials specialist; and the director of the Beltsville Agriculture Research Center. The committee meets at least once a year with the NPMC manager and the national plant materials specialist to provide guidance to the center.

The National Plant Materials Center 1980 Advisory Committee is as follows:

Thomas N. Shiflet
 Director, Ecological Sciences Division

Gerald R. Calhoun
 State Conservationist, Maryland State Office

P. A. Putnum
 Director, Beltsville Agriculture Research Center

W. Curtis Sharp
Plant Materials Specialist, Northeast Technical Service
Center

Advisors to NPMC:

Robert S. MacLauchlan
National Plant Materials Specialist, Ecological Sciences
Division

H. Wayne Everett, Staff Plant Materials Specialist,
Ecological Sciences Division

Personnel

Stephen K. Salvo	Manager (November 80 to Present)
Michael McCrary	Manager (January 80 to June 80)
William H. Fry	Assistant Manager/Soil Conservationist
John A. Oyler	Soil Conservationist
Carol A. Tissue	Secretary
Richard C. Russell	Biological Technician
Robert A. Hood	Tractor Operator
Daniel L. Palensky	Gardener
Shawn D. Conrad	Biological Aid (Summer)
Kevin Dugard	Biological Aid (Summer)

Employee Recognition

Letter of Commendation - Carol Tissue

Grade Promotion - John Oyler

Quality Within Grade Award - Richard Russell

20-Year Service Award - Richard Russell

Physical Features

Location:

The center is located on the Beltsville Agriculture Research Center, Beltsville, Maryland. This location is approximately fifteen miles east of the District of Columbia and twenty miles west of Baltimore, Maryland.

Although surrounded by the densely populated metropolitan Washington area, the center's location within the 7,500-acre Agriculture Research

Center offers isolation from the mainstream. The entire Agriculture Research Center consists of predominantly hardwood forest with numerous openings and fields.

Climate:

The NPMC is located in a humid, continental-type climate, primarily due to the typical west to east atmospheric flow and 43 inches average annual rainfall. Summer weather is dominated by large masses of warm, moist air spreading northward from the south and southwest. The winter weather is rapidly changed from day to day by alternating high and low pressure systems in the west-east flow.

Temperatures of 90°F or higher occur 40 days per year on the average and 32°F or lower occur on 119 days per year. The average annual precipitation is evenly distributed in a typical year. Summer rainfall of significance is generally from thunderstorms or the occasional tropical storm or hurricane that affects the weather.

The growing season averages 162 days with 50 percent probability that it will begin on April 29 and end on October 9.

Major Land Resource Area:

Although the center lies within the Northern Coastal Plain Land Resource Area, it is very near the separation point between the Northern Coastal Plain LRA and the Northern Piedmont LRA.

Soils and Topography:

Soils on the center consist mostly of sandy loams and loamy sands with areas of split loam and clay. Complete soils descriptions and soils map are displayed on page 6. The land varies from gently sloping to moderately sloping. Conservation practices are necessary to prevent erosion. Wind erosion can be severe on the loamy sands unless adequate cover is provided.

Land Area:

The NPMC consists of 140 acres of SCS-owned land. Approximately 80 acres are considered tillable. The majority of the remaining land is in bottomland hardwood forest with a small area of upland hardwood-pine forest. Included in the acreage is a lake covering 17 surface acres. This lake was built about 1940 for irrigation purposes. Beck Branch, a small, year-round stream feeds the lake and meanders through the center's bottomland forest.

Deer, small game, and waterfowl are abundant on the center. Land, not in cultivation, is managed for wildlife according to a conservation plan. Deer and rabbits pose serious threats to observation rows, especially legumes. Groundhogs (woodchucks) cause occasional damage to fields due to their burrowing habit.

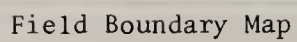
The wide variety of plants being increased on the center presents another problem--observing isolation requirements. To accomplish this, five fields are located from one-half to one mile from the headquarters-greenhouse complex.

Structures:

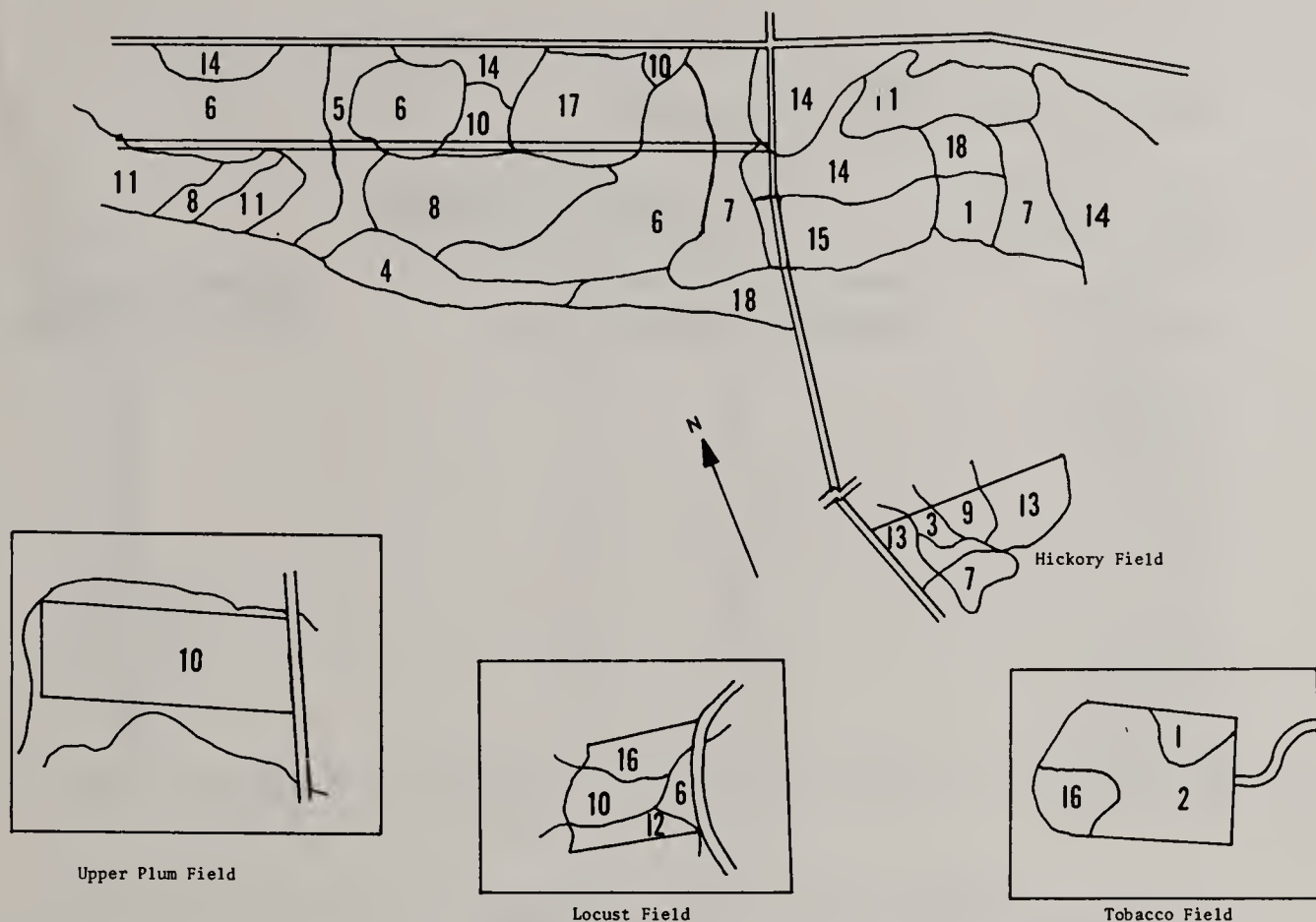
Center buildings consist of the main office (Building 509, located near the intersection of Soil Conservation and Beaver Dam Roads); two 75' x 16' glasshouses with attached headhouse and office space for the biological technician; enclosed garage with 30' x 24' shop area; enclosed garage for tractor and equipment storage; seed processing building; and plant storage building. Also, residences are provided on a rental basis for the manager and assistant manager. These residences are also located on the center.

Irrigation:

Supplemental irrigation is provided by a portable sprinkler system utilizing fire hydrants as the source of water.



Soils Map and Descriptions



- 1 -- Cristiana clay--well drained soils, clayey throughout; most of the surface soil lost through erosion. Capability unit IVe-3. Moderate to strong acidity.
- 2 -- Cristiana fine sandy loam--a deep, well drained red clayey soil with a sandy surface and a very high moisture holding capacity.
- 3 -- Elkton silt loam--poorly drained silt loam over clay or silty clay. Drainage is a major problem. Capability unit IIW-9. Strong to extreme acidity; the water table near the surface much of the year. Suitable for crops if desired.
- 4 -- Elsinboro sandy loam--sand dominant in the surface layer. Well suited to general crops and deep-rooted crops. Capability unit I-S. High moisture holding capacity.
- 5 -- Fallsington sandy loam--poorly drained loams and sandy loams. Capability unit IIW-6. Strongly to extremely acid with moderate moisture holding capacity and moderate fertility. Suitable for farm uses if drained.
- 6 -- Galestown - Evesboro loamy sands--coarse, loose and droughty. Severely limited for farming; protection from wind erosion is necessary. Capability unit IVs-1. Low natural fertility and extreme acidity. Suitable for deep-rooted crops and for shallow-rooted plants if irrigation is supplied when needed.
- 7 -- Iuka sandy loam--moderately well drained, some drainage aids necessary for cropping. Capability unit IIw-7. Moderate to high moisture holding capability. Strongly to extremely acid. Suitable for general farm crops.
- 8 -- Keyport fine sandy loam--moderately well drained sandy, silty, and silty clay loams. Erosion rather than drainage is the prime consideration. Capability units IIe-36 and IIe-36. Strongly acid, natural fertility medium to low. Well suited to some farm crops when managed.
- 9 -- Matapeake silt loam--well drained. Suitable for most crops including tobacco. Capability unit IIe-4. High moisture holding capacity and good natural fertility.
- 10 -- Muirkirk loamy sand--erosion hazard from the thick sandy surface layer. Capability units IIs-S and IIe-S. Rapidly permeable, medium to strongly acid, moderate in fertility. Suited to deep-rooted crops only unless irrigated.
- 11 -- Rumford loam sand--medium and coarse sand moderate to dominant in the surface layer. Low in moisture and plant nutrients, but high quality crops can be produced if managed properly. Capability units IIs-4 and IIe-33. Excessively drained, acid.
- 12 -- Rumford sandy and clayey land--suitable for undemanding farm crops on rotation with long-term pasture or woodland. Dominant sand in the surface layer. Capability units IIe-41 and IVe-S. Medium to extreme acidity, fertility low to high.
- 13 -- Sassafras sandy loam--moisture holding capacity is good except for prolonged drought. Erosion is likely unless good farm practices are followed, suited to most crops. Capability unit IIe-S. Acid, productive under fertilization. Suitable for most crops.
- 14 -- Sunnyside fine sandy loam--moderate risk of erosion, droughty only during long dry periods. Suited to most crops. Capability units IIe-5 and IIe-S. Acid, require fertilizer for good crops.
- 15 -- Sunnyside sandy clay loam--severely eroded if unprotected. Suitable for hay or pasture only, or woodland. Capability unit VIe-2. Well drained, strong to extreme acidity.
- 16 -- Sunnyside loam--moderately eroded. Suited to general crops and medium quality tobacco. Capability unit IIe-4. Deep, well drained, medium to strong acidity. Moderate to high natural fertility.
- 17 -- Sunnyside urban land--disturbed land with no capability unit assigned. Variable potential and productivity.
- 18 -- Woodstown sandy loam--moderately well drained. Both erosion control and improved drainage are needed due to seasonally high water table. Capability units IIe-36 and IIe-36. Moderately coarse textured and strongly acid. Natural fertility is medium to low. Suitable for some crops except where limited by slope.

Weather Data - 1980

Temperature Extremes

<u>Month</u>	<u>Lowest Temperature Recorded for Month (°F)</u>	<u>Highest Temperature Recorded for Month (°F)</u>
January	10	56
February	7	63
March	11	71
April	32	81
May	40	90
June*	43	96
July	53	102
August	60	100
September	41	102
October	31	85
November	23	73
December	0	75

Means

<u>Month</u>	<u>Mean Low For Month</u>	<u>Mean High For Month</u>	<u>Deviation From Average Low</u>	<u>Average High</u>
January	27	42	+4	+11
February	23	42	-1	-4
March	33	53	+3	+2
April	45	68	+15	+2
May	54	79	+4	+5
June*	57	83	-1	+1
July	67	92	+3	+5
August	67	92	+2	+7
September	50	86	-5	+7
October	45	69	+2	+1
November	35	55	+3	-1
December	26	47	+2	+2

*June temperature data from U. S. Weather Bureau, Climatological Data, Beltsville Station

Normal date of last spring freeze - April 29

Actual data of last spring freeze in 1980 - April 18

Normal date of first fall freeze - October 9

Actual date of first fall freeze in 1980 - October 30

Normal number of freeze-free days - 162

Actual number of freeze-free days in 1980 - 195

Precipitation

<u>Month</u>	<u>Precipitation For Month (Inches)</u>	<u>Deviation From Monthly Average</u>
January	2.60	-0.22
February	0.70	-1.92
March*	4.70	+0.98
April*	4.15	+1.96
May*	4.75	+0.78
June*	2.12	-1.97
July	7.15	+2.55
August	1.67	-3.19
September	1.11	-2.21
October	3.10	+0.06
November	2.80	-0.40
December	0.70	-2.55

*Precipitation data for March through June from U. S. Weather Bureau, Climatological Data, Beltsville Station

Total precipitation recorded in 1980 - 36.55 inches

Deviation from average annual precipitation - -6.13 inches

Weather Summary

1980 was both warmer and dryer at the National Plant Materials Center. With the exception of February, each month recorded above normal temperatures. The precipitation for the period August through February was 10.43 inches below normal as compared to 1979 when precipitation for that period was 13.14 inches above normal. Total precipitation for 1980 was 36.55 inches, 6.13 inches below normal.

The last spring freeze occurred fifteen days earlier than in 1979 and twenty-one days later in the fall than in 1979. The growing season lasted 195 days, thirty-three days longer than normal.

Plant Materials Received - New Introductions

The National Plant Materials Center maintains a standing request with the Germplasm Resources Laboratory of Science and Education Administration for foreign plant materials needed to fill requests of field plant materials centers. The NPMC also requests material from numerous foreign researchers. During 1980 the NPMC received approximately 5700 accessions of plant materials from 28 foreign countries.

Frequently, material received by the NPMC is in such small amounts that it must be increased before distribution to the field PMC's.

1980 Introductions

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Abies balsamea</u>	Pinaceae	1	<u>Acacia doratoxylon</u>	Fabaceae	1
<u>Abies veitchii</u>	"	2	<u>Acacia eburnea</u>	"	1
<u>Acacia abyssinica</u>	Fabaceae	1	<u>Acacia erioloba</u>	"	1
<u>Acacia aciphylla</u>	"	1	<u>Acacia erubescens</u>	"	1
<u>Acacia aculeatissima</u>	"	1	<u>Acacia farnesiana</u>	"	3
<u>Acacia alata</u>	"	1	<u>Acacia fimbriata</u>	"	1
<u>Acacia angustissima</u>	"	1	<u>Acacia galpinii</u>	"	1
<u>Acacia armata</u>	"	2	<u>Acacia genistifolia</u>	"	1
<u>Acacia arenaria</u>	"	1	<u>Acacia gerrardii</u>	"	2
<u>Acacia baileyana</u>	"	1	<u>Acacia glandulicarpa</u>	"	1
<u>Acacia beckleri</u>	"	1	<u>Acacia goetzei</u>	"	1
<u>Acacia berlandieri</u>	"	1	<u>Acacia graffiana</u>	"	1
<u>Acacia binervata</u>	"	1	<u>Acacia hebeclada</u>	"	1
<u>Acacia buxifolia</u>	"	1	<u>Acacia holosericea</u>	"	1
<u>Acacia calamifolia</u>	"	1	<u>Acacia homalophylla</u>	"	1
<u>Acacia cardiophylla</u>	"	1	<u>Acacia horrida</u>	"	2
<u>Acacia cavenia</u>	"	1	<u>Acacia implexa</u>	"	1
<u>Acacia conferta</u>	"	1	<u>Acacia irrorata</u>	"	1
<u>Acacia constricta</u>	"	2	<u>Acacia ixiophylla</u>	"	1
<u>Acacia cupularis</u>	"	1	<u>Acacia jibberdingensis</u>	"	1
<u>Acacia cyanophylla</u>	"	1	<u>Acacia juniperina</u>	"	1
<u>Acacia cyclops</u>	"	2	<u>Acacia karroo</u>	"	3
<u>Acacia davidsonii</u>	"	1	<u>Acacia kao</u>	"	1
<u>Acacia dealbata</u>	"	2	<u>Acacia liebmanii</u>	"	1
<u>Acacia decurrens</u>	"	1	<u>Acacia ligulata</u>	"	1
<u>Acacia dietrichiana</u>	"	1	<u>Acacia linearis</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Acacia lineata</u>	Fabaceae	1	<u>Acacia urophylla</u>	Fabaceae	1
<u>Acacia longifolia</u>	"	6	<u>Acacia verticillata</u>	"	2
<u>Acacia melanoxylon</u>	"	3	<u>Acacia victoriae</u>	"	1
<u>Acacia microbotrya</u>	"	1	<u>Acacia viscidula</u>	"	1
<u>Acacia montana</u>	"	1	<u>Acacia species</u>	"	2
<u>Acacia myrtifolia</u>	"	1	<u>Acer ginnala</u>	Aceraceae	13
<u>Acacia neriifolia</u>	"	1	<u>Acer glabrum</u>	"	2
<u>Acacia nilotica</u>	"	3	<u>Acer negundo</u>	"	11
<u>Acacia oxycedrus</u>	"	1	<u>Acer platanoides</u>	"	2
<u>Acacia paradoxa</u>	"	1	<u>Acer pseudo-platanus</u>	"	1
<u>Acacia pentigona</u>	"	1	<u>Acer spicatum</u>	"	1
<u>Acacia podalyriifolia</u>	"	1	<u>Acer tataricum</u>	"	13
<u>Acacia polyacantha</u>	"	1	<u>Achillea aegyptiaca</u>	Asteraceae	1
<u>Acacia prominens</u>	"	1	<u>Achillea ageratifolia</u>	"	1
<u>Acacia pycnantha</u>	"	1	<u>Achillea ageratum</u>	"	3
<u>Acacia pyrifolia</u>	"	1	<u>Achillea alpina</u>	"	1
<u>Acacia retinodes</u>	"	2	<u>Achillea bisserata</u>	"	1
<u>Acacia robusta</u>	"	1	<u>Achillea cartilaginea</u>	"	2
<u>Acacia salicina</u>	"	1	<u>Achillea chrysocoma</u>	"	2
<u>Acacia saligna</u>	"	3	<u>Achillea clavenae</u>	"	3
<u>Acacia schweinfurthii</u>	"	1	<u>Achillea clusiana</u>	"	2
<u>Acacia senegal</u>	"	1	<u>Achillea clypeolata</u>	"	3
<u>Acacia seyal</u>	"	1	<u>Achillea collina</u>	"	1
<u>Acacia sieberana</u>	"	1	<u>Achillea crithmifolia</u>	"	1
<u>Acacia smalli</u>	"	1	<u>Achillea distans</u>	"	2
<u>Acacia sophorae</u>	"	1	<u>Achillea filipendulina</u>	"	17
<u>Acacia spectabilis</u>	"	1	<u>Achillea grandifolia</u>	"	1
<u>Acacia stricta</u>	"	1	<u>Achillea impatiens</u>	"	1
<u>Acacia suaveolens</u>	"	1	<u>Achillea ligustica</u>	"	1
<u>Acacia swazica</u>	"	1	<u>Achillea lingulata</u>	"	1
<u>Acacia terminalis</u>	"	1	<u>Achillea macrophylla</u>	"	4
<u>Acacia tortilis</u>	"	1	<u>Achillea magna</u>	"	1
<u>Acacia uncinata</u>	"	1	<u>Achillea millefolium</u>	"	36

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Achillea nobilis</u>	Asteraceae	3	<u>Alnus rugosa</u>	Betulaceae	2
<u>Achillea odorata</u>	"	3	<u>Alnus serrulata</u>	"	1
<u>Achillea pannonica</u>	"	3	<u>Alnus sinuata</u>	"	2
<u>Achillea ptarmica</u>	"	30	<u>Alnus tenuifolia</u>	"	1
<u>Achillea pyrenaica</u>	"	1	<u>Alopecurus arundinaceus</u>	Poaceae	1
<u>Achillea rupestris</u>	"	1	<u>Alopecurus geniculatus</u>	"	5
<u>Achillea salicifolia</u>	"	1	<u>Alopecurus pratensis</u>	"	2
<u>Achillea setacea</u>	"	2	<u>Amelanchier alnifolia</u>	Rosaceae	5
<u>Achillea sibirica</u>	"	5	<u>Amelanchier asiatica</u>	"	2
<u>Achillea tanacetifolia</u>	"	1	<u>Amelanchier canadensis</u>	"	4
<u>Achillea tomentosa</u>	"	2	<u>Amelanchier oblongifolia</u>	"	1
<u>Achillea umbellata</u>	"	1	<u>Amelanchier ovalis</u>	"	4
<u>Agastache urticifolia</u>	Lamiaceae	2	<u>Amelanchier spicata</u>	"	4
<u>Agoseris glauca</u>	Asteraceae	2	<u>Amelanchier stolonifera</u>	"	1
<u>Agropyron intermedium</u>	Poaceae	7	<u>Ammophila arenaria</u>	Poaceae	1
<u>Agropyron pauciflorum</u>	"	3	<u>Amorpha californica</u>	Fabaceae	1
<u>Agropyron pectiniforme</u>	"	5	<u>Amorpha canescens</u>	"	2
<u>Agropyron repens</u>	"	1	<u>Amorpha fruticosa</u>	"	12
<u>Agropyron smithii</u>	"	1	<u>Amorpha nana</u>	"	2
<u>Agropyron trachycaulon</u>	"	1	<u>Amygdalus nana</u>	Rosaceae	3
<u>Agrostis alba</u>	"	4	<u>Anaphalis margaritacea</u>	Asteraceae	6
<u>Agrostis gigantea</u>	"	15	<u>Anchusa azurea</u>	Boraginaceae	5
<u>Agrostis stolonifera</u>	"	14	<u>Anchusa italica</u>	"	1
<u>Agrostis tenuis</u>	"	8	<u>Antennaria alpina</u>	Asteraceae	5
<u>Agrostis vulgaris</u>	"	3	<u>Antennaria anaphaloides</u>	"	1
<u>Albizia antunesiana</u>	Fabaceae	1	<u>Antennaria carpatica</u>	"	1
<u>Albizia gummifera</u>	"	1	<u>Antennaria dioica</u>	"	7
<u>Alibzia julibrissin</u>	"	1	<u>Antennaria hansii</u>	"	1
<u>Albizia lophantha</u>	"	5	<u>Antennaria lanata</u>	"	1
<u>Albizia schimperana</u>	"	1	<u>Antennaria magellanica</u>	"	1
<u>Alchemilla mollis</u>	Rosaceae	3	<u>Antennaria microphylla</u>	"	1
<u>Alnus crispa</u>	Betulaceae	2	<u>Antennaria neglecta</u>	"	1
<u>Alnus incana</u>	"	4	<u>Antennaria plantaginifolia</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Antennaria porsildii</u>	Asteraceae	1	<u>Armeria setacea</u>	Plumbaginaceae	2
<u>Antennaria pulcherrima</u>	"	1	<u>Armeria sibirica</u>	"	2
<u>Antennaria stenophylla</u>	"	1	<u>Armeria splendens</u>	"	1
<u>Anthemis tinctoria</u>	"	6	<u>Armeria undulata</u>	"	1
<u>Antirrhinum majus</u>	Scrophulariaceae	8	<u>Armeria welwitschii</u>	"	3
<u>Antirrhinum orontium</u>	"	11	<u>Armeria species</u>	"	1
<u>Aquilegia californica</u>	Ranunculaceae	1	<u>Aronia melanocarpa</u>	Rosaceae	2
<u>Aquilegia formosa</u>	"	3	<u>Artemisia abrotanum</u>	Asteraceae	1
<u>Arctostaphylos uva-ursi</u>	Ericaceae	2	<u>Artemisia arctica</u>	"	3
<u>Arenaria montana</u>	Caryophyllaceae	3	<u>Artemisia campestris</u>	"	17
<u>Arenaria sajanensis</u>	"	1	<u>Artemisia cana</u>	"	1
<u>Armeniaca vulgaris</u>	Rosaceae	1	<u>Artemisia canariensis</u>	"	1
<u>Armeria alliacea</u>	Plumbaginaceae	4	<u>Artemisia dracunculus</u>	"	2
<u>Armeria allioides</u>	"	1	<u>Artemisia tilesii</u>	"	1
<u>Armeria alpina</u>	"	7	<u>Artemisia tripartita</u>	"	1
<u>Armeria arctica</u>	"	1	<u>Artemisia vulgaris</u>	"	22
<u>Armeria arenaria</u>	"	2	<u>Asclepias tuberosa</u>	Asclepiadaceae	1
<u>Armeria caespitosa</u>	"	1	<u>Aster acris</u>	Asteraceae	3
<u>Armeria cantabica</u>	"	1	<u>Aster adscendens</u>	"	1
<u>Ameria elongata</u>	"	1	<u>Aster alpinus</u>	"	36
<u>Armeria gaditana</u>	"	1	<u>Aster altaicus</u>	"	3
<u>Armeria halleri</u>	"	4	<u>Aster amellus</u>	"	10
<u>Armeria juncea</u>	"	1	<u>Aster azureus</u>	"	1
<u>Armeria juniperifolia</u>	"	2	<u>Aster bietii</u>	"	1
<u>Armeria leucocephala</u>	"	2	<u>Aster campestris</u>	"	1
<u>Armeria longearistata</u>	"	1	<u>Aster chilensis</u>	"	2
<u>Armeria maritima</u>	"	28	<u>Aster ciliolatus</u>	"	1
<u>Armeria montana</u>	"	1	<u>Aster conspicuus</u>	"	1
<u>Armeria plantaginea</u>	"	2	<u>Aster cordifolius</u>	"	1
<u>Armeria pseudarmeria</u>	"	4	<u>Aster divaricatus</u>	"	1
<u>Armeria pungens</u>	"	4	<u>Aster dumosus</u>	"	1
<u>Armeria ruscinoensis</u>	"	1	<u>Aster ericoides</u>	"	2
<u>Armeria scabra</u>	"	1	<u>Aster farreri</u>	"	3

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Aster foliaceus</u>	Asteraceae	4	<u>Aster thomsonii</u>	Asteraceae	7
<u>Aster fremontii</u>	"	1	<u>Aster tibeticus</u>	"	7
<u>Aster fruticosus</u>	"	2	<u>Aster tongolensis</u>	"	5
<u>Aster purcatus</u>	"	1	<u>Aster tradescantii</u>	"	2
<u>Aster glehnii</u>	"	1	<u>Aster tripolium</u>	"	15
<u>Aster herveyi</u>	"	1	<u>Aster uliginosus</u>	"	1
<u>Aster himalaicus</u>	"	4	<u>Aster umbellatus</u>	"	1
<u>Aster ibericus</u>	"	1	<u>Aster versicolor</u>	"	1
<u>Aster lanceolatus</u>	"	3	<u>Aster yunnanensis</u>	"	3
<u>Aster linosyris</u>	"	16	<u>Astragalus alopecuroides</u>	Fabaceae	3
<u>Aster maackii</u>	"	1	<u>Astragalus alpinus</u>	"	4
<u>Aster macrophyllus</u>	"	1	<u>Astragalus asper</u>	"	1
<u>Aster modestus</u>	"	1	<u>Astragalus austriacus</u>	"	1
<u>Aster mongolicus</u>	"	4	<u>Astragalus boeticus</u>	"	3
<u>Aster novae-angliae</u>	"	6	<u>Astragalus chinensis</u>	"	1
<u>Aster novi-belgii</u>	"	4	<u>Astragalus cicer</u>	"	6
<u>Aster oreophilus</u>	"	1	<u>Astragalus depressus</u>	"	1
<u>Aster pansus</u>	"	1	<u>Astragalus epiglottis</u>	"	1
<u>Aster pappei</u>	"	2	<u>Astragalus falcatus</u>	"	4
<u>Aster polycephalus</u>	"	1	<u>Astragalus frigidus</u>	"	1
<u>Aster ptarmicoides</u>	"	1	<u>Astragalus glaux</u>	"	1
<u>Aster purdomii</u>	"	1	<u>Astragalus glycyphyllos</u>	"	10
<u>Aster pyrenaeus</u>	"	5	<u>Astragalus hamosus</u>	"	1
<u>Aster rotundifolius</u>	"	3	<u>Astragalus inflatus</u>	"	1
<u>Aster salicifolius</u>	"	1	<u>Astragalus lusitanicus</u>	"	2
<u>Aster salignus</u>	"	4	<u>Astragalus mongholicus</u>	"	1
<u>Aster scaber</u>	"	1	<u>Astragalus monspessulanus</u>	"	1
<u>Aster sedifolius</u>	"	3	<u>Astragalus onobrychis</u>	"	3
<u>Aster sibiricus</u>	"	5	<u>Astragalus penduliflorus</u>	"	1
<u>Aster squamatus</u>	"	2	<u>Astragalus robbinsii</u>	"	1
<u>Aster subcaeruleus</u>	"	3	<u>Astragalus sulcatus</u>	"	1
<u>Aster subintegerrimus</u>	"	7	<u>Astragalus vesicarius</u>	"	1
<u>Aster tanacetifolius</u>	"	1	<u>Atriplex acuminata</u>	Chenopodiaceae	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Atriplex calutheca</u>	Chenopodiaceae	2	<u>Betula verrucosa</u>	Betulaceae	6
<u>Atriplex glabriuscula</u>	"	1	<u>Biota orientalis</u>	Cupressaceae	4
<u>Atriplex glauca</u>	"	1	<u>Biserrula pelecinus</u>	Fabaceae	2
<u>Atriplex halimus</u>	"	2	<u>Boltonia latisguama</u>	Asteraceae	2
<u>Atriplex hortensis</u>	"	22	<u>Bouteloua gracilis</u>	Poaceae	2
<u>Atriplex inflata</u>	"	2	<u>Bouteloua hirsuta</u>	"	1
<u>Atriplex leucoclada</u>	"	1	<u>Brassica juncea</u>	Brassicaceae	17
<u>Atriplex littoralis</u>	"	5	<u>Brassica napus</u>	"	31
<u>Atriplex nitens</u>	"	4	<u>Brassica rapa</u>	"	22
<u>Atriplex patula</u>	"	13	<u>Bromus asper</u>	Poaceae	1
<u>Atriplex rosea</u>	"	4	<u>Bromus briziformis</u>	"	1
<u>Atriplex sibirica</u>	"	1	<u>Bromus ciliatus</u>	"	1
<u>Atriplex tatarica</u>	"	3	<u>Bromus commutatus</u>	"	3
<u>Aurinia saxatilis</u>	Brassicaceae	12	<u>Bromus erectus</u>	"	29
<u>Baptisia australis</u>	Fabaceae	13	<u>Bromus hordeaceus</u>	"	4
<u>Baptisia tinctoria</u>	"	3	<u>Bromus mollis</u>	"	8
<u>Bauhina aculeata</u>	"	1	<u>Bromus pumpellanus</u>	"	1
<u>Bauhina candicans</u>	"	1	<u>Bromus racemosus</u>	"	3
<u>Bauhina diphylla</u>	"	1	<u>Bromus ramosus</u>	"	7
<u>Bauhina galpinii</u>	"	1	<u>Bromus secalinus</u>	"	13
<u>Bauhina petersiana</u>	"	2	<u>Buchloe dactyloides</u>	"	1
<u>Bauhina purpurea</u>	"	2	<u>Bunium orientalis</u>	Apiaceae	1
<u>Bauhina tomentosa</u>	"	2	<u>Buphthalmum salicifolium</u>	Asteraceae	6
<u>Bauhina variegata</u>	"	1	<u>Calamagrostis arundinacea</u>	Poaceae	7
<u>Beckmannia erucaeformis</u>	Poaceae	5	<u>Calamagrostis canescens</u>	"	3
<u>Beckmannia syzigachne</u>	"	1	<u>Calamagrostis epigeios</u>	"	16
<u>Belamcanda chinensis</u>	Iridaceae	1	<u>C. pseudophragmites</u>	"	1
<u>Betula alba</u>	Betulaceae	1	<u>Calamagrostis varia</u>	"	1
<u>Betula glandulosa</u>	"	1	<u>Calamovilfa longifolia</u>	"	1
<u>Betula nana</u>	"	6	<u>Calendula officinalis</u>	Asteraceae	28
<u>Betula occidentalis</u>	"	1	<u>Callistemon brachyandrus</u>	Myrtaceae	2
<u>Betula papyrifera</u>	"	5	<u>Callistemon citrinus</u>	"	2
<u>Betula pendula</u>	"	8	<u>Callistemon coccineus</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Callistemon cumboynensis</u>	Myrtaceae	1	<u>Caragana grandiflora</u>	Fabaceae	1
<u>Callistemon hortensis</u>	"	1	<u>Caragana microphylla</u>	"	1
<u>Callistemon jeffersii</u>	"	1	<u>Caragana pygmaea</u>	"	3
<u>Callistemon linearis</u>	"	3	<u>Cardamine pratensis</u>	Brassicaceae	1
<u>Callistemon macropunctatus</u>	"	1	<u>Carex arenaria</u>	Cyperaceae	2
<u>Callistemon paludosus</u>	"	1	<u>Carex atrata</u>	"	2
<u>Callistemon pendulus</u>	"	1	<u>Carex atrofusca</u>	"	1
<u>Callistemon phoeniceus</u>	"	4	<u>Carex burbaumii</u>	"	1
<u>Callistemon pinifolius</u>	"	2	<u>Carex buxbaumii</u>	"	1
<u>Callistemon pityoides</u>	"	1	<u>Carex caldeae</u>	"	1
<u>Callistemon rigidus</u>	"	2	<u>Carex canariensis</u>	"	1
<u>Callistemon rosea</u>	"	1	<u>Carex capillaris</u>	"	1
<u>Callistemon rugulosus</u>	"	1	<u>Carex caryophyllea</u>	"	1
<u>Callistemon salignus</u>	"	2	<u>Carex depauperata</u>	"	1
<u>Callistemon semperflorens</u>	"	1	<u>Carex distans</u>	"	1
<u>Callistemon sheresii</u>	"	1	<u>Carex disticha</u>	"	1
<u>Callistemon sieberii</u>	"	1	<u>Carex divida</u>	"	1
<u>Callistemon speciosus</u>	"	3	<u>Carex divulsa</u>	"	2
<u>Callistemon viminalis</u>	"	1	<u>Carex echinata</u>	"	1
<u>Callistemon violaceus</u>	"	1	<u>Carex flacca</u>	"	4
<u>Calluna vulgaris</u>	Ericaceae	2	<u>Carex grayii</u>	"	1
<u>Calothamnus</u>			<u>Carex hirta</u>	"	2
<u>blepharospermus</u>	Myrtaceae	1	<u>Carex horderstichos</u>	"	2
<u>Calothamnus quadrifidus</u>	"	1	<u>Carex lepidocarpa</u>	"	1
<u>Calothamnus schaueri</u>	"	1	<u>Carex lyngbyei</u>	"	1
<u>Campanula alaskana</u>	Campanulaceae	1	<u>Carex michelii</u>	"	1
<u>Campanula auceri</u>	"	1	<u>Carex muricata</u>	"	1
<u>Campanula rotundifolia</u>	"	9	<u>Carex nigra</u>	"	1
<u>Caragana arborescens</u>	Fabaceae	23	<u>Carex otrubae</u>	"	1
<u>Caragana boisii</u>	"	1	<u>Carex paludosa</u>	"	1
<u>Caragana camilli-</u> <u>schneideri</u>	"	1	<u>Carex panicea</u>	"	1
<u>Caragana decurticans</u>	"	1	<u>Carex paniculata</u>	"	1
<u>Caragana frutex</u>	"	6	<u>Carex paupercula</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Carex pendula</u>	Cyperaceae	4	<u>Cassia obtusifolia</u>	Fabaceae	1
<u>Carex pseudo-cyperus</u>	"	2	<u>Cassia occidentalis</u>	"	3
<u>Carex pulicaris</u>	"	1	<u>Cassia odorata</u>	"	2
<u>Carex remota</u>	"	1	<u>Cassia petersiana</u>	"	1
<u>Carex scaposa</u>	"	1	<u>Cassia phyllodinea</u>	"	1
<u>Carex stricta</u>	"	1	<u>Cassia pleurocarpa</u>	"	1
<u>Carex sylvatica</u>	"	4	<u>Cassia schultesii</u>	"	1
<u>Carex tomentosa</u>	"	1	<u>Cassia senna</u>	"	3
<u>Carex vesicaria</u>	"	1	<u>Cassia sericea</u>	"	1
<u>Carex vulgaris</u>	"	1	<u>Cassia siamea</u>	"	1
<u>Carex vulpina</u>	"	4	<u>Cassia sinqueana</u>	"	1
<u>Cassia abbreviata</u>	Fabaceae	1	<u>Cassia sophora</u>	"	1
<u>Cassia aciphylla</u>	"	1	<u>Cassia sturtii</u>	"	1
<u>Cassia alata</u>	"	1	<u>Cassia surattensis</u>	"	1
<u>Cassia bicapsularis</u>	"	2	<u>Cassia tomentosa</u>	"	1
<u>Cassia biflora</u>	"	1	<u>Cassia tora</u>	"	2
<u>Cassia brewsteri</u>	"	1	<u>Cassia torosa</u>	"	1
<u>Cassia carnaval</u>	"	1	<u>Cassia wislizenii</u>	"	1
<u>Cassia circinnata</u>	"	1	<u>Castilleja miniata</u>	Scrophulariaceae	1
<u>Cassia coronilloides</u>	"	1	<u>Castilleja unalaschensis</u>	"	1
<u>Cassia corymbosa</u>	"	2	<u>Casuarina acutivalvis</u>	Casuarinaceae	1
<u>Cassia desolata</u>	"	1	<u>Casuarina corniculata</u>	"	1
<u>Cassia didymobotrya</u>	"	2	<u>Casuarina cristata</u>	"	2
<u>Cassia eremophila</u>	"	3	<u>Casuarina distyla</u>	"	2
<u>Cassia excelsa</u>	"	1	<u>Casuarina equisetifolia</u>	"	2
<u>Cassia floribunda</u>	"	2	<u>Casuarina humilis</u>	"	1
<u>Cassia helmsii</u>	"	1	<u>Casuarina lehmanniana</u>	"	1
<u>Cassia leptophylla</u>	"	1	<u>Casuarina littoralis</u>	"	1
<u>Cassia mimosoides</u>	"	2	<u>Casuarina luehmannii</u>	"	1
<u>Cassia multijuga</u>	"	1	<u>Casuarina muellerana</u>	"	1
<u>Cassia nemophylla</u>	"	3	<u>Casuarina nana</u>	"	1
<u>Cassia nobosa</u>	"	1	<u>Casuarina paludosa</u>	"	1
<u>Cassia notabilis</u>	"	1	<u>Casuarina stricta</u>	"	2

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Casuarina torulosa</u>	Casuarinaceae	2	<u>Chamaenerion angustifolia</u>	Onagraceae	16
<u>Casuarina species</u>	"	1	<u>Chamaenerion latifolium</u>	"	2
<u>Catananche coerulea</u>	Asteraceae	4	<u>Chamaespartium tridentatum</u>	Fabaceae	1
<u>Ceanothus americanus</u>	Rhamnaceae	4	<u>Chasmanthium latifolium</u>	Poaceae	7
<u>Ceanothus arboreus</u>	"	1	<u>Cheiranthus aloinii</u>	Brassicaceae	1
<u>Ceanothus delilianus</u>	"	1	<u>Chrysanthemum carinatum</u>	Asteraceae	6
<u>Ceanothus foliosus</u>	"	1	<u>Chrysanthemum coronarium</u>	"	14
<u>Ceanothus ovatus</u>	"	1	<u>C. leucanthemum</u>	"	7
<u>Ceanothus sanguineus</u>	"	1	<u>Chrysanthemum segetum</u>	"	11
<u>Ceanothus thyrsiflorus</u>	"	2	<u>Chrysopsis villosa</u>	"	4
<u>Ceanothus velutinus</u>	"	1	<u>Chrysothamnus nauseosus</u>	"	2
<u>Celtis australis</u>	Ulmaceae	11	<u>Cicer arietinum</u>	Fabaceae	1
<u>Celtis bungeana</u>	"	1	<u>Cichorium intybus</u>	Asteraceae	28
<u>Celtis caucasica</u>	"	1	<u>Clematis borachiata</u>	Ranunculaceae	1
<u>Celtis glabrata</u>	"	1	<u>Clematis flammula</u>	"	1
<u>Celtis jessoensis</u>	"	2	<u>Clematis microphylla</u>	"	1
<u>Celtis laevigatus</u>	"	1	<u>Clematis welwitschii</u>	"	1
<u>Celtis occidentalis</u>	"	10	<u>Clethra alnifolia</u>	Clethraceae	1
<u>Celtis pumila</u>	"	1	<u>Coix lacryma-jobi</u>	Poaceae	12
<u>Celtis sinensis</u>	"	2	<u>Collinsia bicolor</u>	Scrophulariaceae	2
<u>Celtis yunnanensis</u>	"	1	<u>Collinsia heterophylla</u>	"	1
<u>Centaurea cyanus</u>	Asteraceae	10	<u>Consolida ajacis</u>	Ranunculaceae	4
<u>Centaurea dealbata</u>	"	5	<u>Consolida ambigua</u>	"	5
<u>Centaurea montana</u>	"	8	<u>Consolida orientalis</u>	"	4
<u>Centrosema pubescens</u>	Fabaceae	7	<u>Conyza canadensis</u>	Asteraceae	7
<u>Cerasus avium</u>	Rosaceae	1	<u>Coreopsis lanceolata</u>	"	8
<u>Cerasus besseyi</u>	"	1	<u>Cornus alba</u>	Cornaceae	17
<u>Cerasus tomentosa</u>	"	1	<u>Cornus alternifolia</u>	"	7
<u>Ceratonía siliqua</u>	Fabaceae	1	<u>Cornus amomum</u>	"	3
<u>Cercis siliquastrum</u>	"	15	<u>Cornus obliqua</u>	"	8
<u>Chamaecyparis obtusa</u>	Cupressaceae	2	<u>Cornus sanguinea</u>	"	26
<u>Chamaecyparis pisifera</u>	"	3	<u>Cornus sericea</u>	"	3
<u>Chamaedaphne caliculata</u>	Ericaceae	1			

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Cornus stolonifera</u>	Cornaceae	8	<u>Cotoneaster dammeri</u>	Rosaceae	3
<u>Cornus suecica</u>	"	6	<u>Cotoneaster dielsiana</u>	"	10
<u>Coronilla argentea</u>	Fabaceae	1	<u>Cotoneaster disticha</u>	"	3
<u>Coronilla cappodocia</u>	"	2	<u>Cotoneaster divaricata</u>	"	11
<u>Coronilla coronata</u>	"	4	<u>Cotoneaster elegans</u>	"	1
<u>Coronilla cretica</u>	"	1	<u>Cotoneaster foveulata</u>	"	5
<u>Coronilla emerus</u>	"	8	<u>Cotoneaster francheti</u>	"	13
<u>Coronilla eremurus</u>	"	2	<u>Cotoneaster frigida</u>	"	5
<u>Coronilla glauca</u>	"	1	<u>Cotoneaster glaucophylla</u>	"	2
<u>Coronilla juncea</u>	"	1	<u>Cotoneaster harroviana</u>	"	2
<u>Coronilla minima</u>	"	1	<u>Cotoneaster harrismithii</u>	"	3
<u>Coronilla montana</u>	"	1	<u>Cotoneaster hebephylla</u>	"	1
<u>Coronilla orientalis</u>	"	2	<u>Cotoneaster henryana</u>	"	1
<u>Coronilla reptanda</u>	"	1	<u>Cotoneaster hissarica</u>	"	1
<u>Coronilla scorpioides</u>	"	5	<u>Cotoneaster horizontalis</u>	"	19
<u>Coronilla vaginalis</u>	"	2	<u>Cotoneaster hupehensis</u>	"	4
<u>Coronilla valentina</u>	"	5	<u>Cotoneaster hybrida</u>	"	2
<u>Coronilla varia</u>	"	17	<u>Cotoneaster ignavus</u>	"	1
<u>Corydalis glauca</u>	Fumariaceae	1	<u>Cotoneaster insignis</u>	"	2
<u>Corydalis sempervirens</u>	:	3	<u>Cotoneaster integerrima</u>	"	20
<u>Cotoneaster acuminata</u>	Rosaceae	3	<u>Cotoneaster karatavicus</u>	"	1
<u>Cotoneaster acutifolia</u>	"	7	<u>Cotoneaster lactea</u>	"	10
<u>Cotoneaster adpressa</u>	"	5	<u>Cotoneaster lindleyi</u>	"	2
<u>Cotoneaster affina</u>	"	1	<u>Cotoneaster lucida</u>	"	12
<u>Cotoneaster allochrus</u>	"	1	<u>Cotoneaster melanocarpa</u>	"	4
<u>Cotoneaster amoina</u>	"	1	<u>Cotoneaster microphylla</u>	"	11
<u>Cotoneaster apiculata</u>	"	3	<u>Cotoneaster moupinensis</u>	"	9
<u>Cotoneaster bacillaris</u>	"	1	<u>Cotoneaster multiflora</u>	"	11
<u>Cotoneaster bullata</u>	"	18	<u>Cotoneaster nanshan</u>	"	2
<u>Cotoneaster buxifolia</u>	"	4	<u>Cotoneaster nebrodensis</u>	"	5
<u>Cotoneaster congesta</u>	"	2	<u>Cotoneaster niger</u>	"	6
<u>Cotoneaster conspicua</u>	"	2	<u>Cotoneaster nitens</u>	"	6
<u>Cotoneaster crispa</u>	"	1	<u>Cotoneaster nitidifolia</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Cotoneaster obscura</u>	Rosaceae	3	<u>Crataegus durobrivensis</u>	Rosaceae	1
<u>Cotoneaster oligantha</u>	"	1	<u>Crataegus intricata</u>	"	1
<u>Cotoneaster pannosa</u>	"	3	<u>Crataegus macrosperma</u>	"	1
<u>Cotoneaster praecox</u>	"	7	<u>Crataegus maximowiczii</u>	"	5
<u>Cotoneaster pseudoambigua</u>	"	1	<u>Crataegus punctata</u>	"	3
<u>Cotoneaster racemiflora</u>	"	5	<u>Crataegus rivularis</u>	"	1
<u>Cotoneaster racemosa</u>	"	1	<u>Crataegus rotundifolia</u>	"	1
<u>Cotoneaster reticulata</u>	"	1	<u>Crataegus sanguinea</u>	"	3
<u>Cotoneaster rhytidophyllus</u>	"	1	<u>Crepis capillaris</u>	Asteraceae	2
<u>Cotoneaster rosea</u>	"	6	<u>Crepis paludosa</u>	"	1
<u>Cotoneaster rotundiflora</u>	"	2	<u>Crotalaria capensis</u>	Fabaceae	1
<u>Cotoneaster salicifolia</u>	"	15	<u>Crotalaria cleomifolia</u>	"	1
<u>Cotoneaster saxatilis</u>	"	1	<u>Crotalaria goreensis</u>	"	1
<u>Cotoneaster serotina</u>	"	1	<u>Crotalaria lachnophora</u>	"	1
<u>Cotoneaster sikangensis</u>	"	1	<u>Crotalaria lanceolata</u>	"	1
<u>Cotoneaster sikkimensis</u>	"	1	<u>Crotalaria ochroleuca</u>	"	1
<u>Cotoneaster simonsii</u>	"	1	<u>Crotalaria pallida</u>	"	1
<u>Cotoneaster skogholm</u>	"	1	<u>Crotalaria retosa</u>	"	1
<u>Cotoneaster splendens</u>	"	2	<u>Crotalaria rogersii</u>	"	1
<u>Cotoneaster steriana</u>	"	1	<u>Crotalaria virgulata</u>	"	1
<u>Cotoneaster taurica</u>	"	1	<u>Cuscuta europaea</u>	Convolvulaceae	1
<u>Cotoneaster tomentosa</u>	"	3	<u>Dactylis aschersoniana</u>	Poaceae	1
<u>Cotoneaster wardii</u>	"	6	<u>Dactylis glomerata</u>	"	9
<u>Cotoneaster watereri</u>	"	4	<u>Dactylis hispanica</u>	"	1
<u>Cotoneaster zabelli</u>	"	5	<u>Dactylis polygama</u>	"	5
<u>Cotoneaster aeravschanicus</u>	"	2	<u>Dactylis smithii</u>	"	1
<u>Cotoneaster species</u>	"	2	<u>Dactylis woronowii</u>	"	1
<u>Cowania stansburiana</u>	"	1	<u>Daphne mezereum</u>	Thymelaeaceae	23
<u>Crataegus chlorocarpa</u>	"	4	<u>Datura stramonium</u>	Solonaceae	1
<u>Crataegus chlorosarca</u>	"	7	<u>Deschampsia cespitosa</u>	Poaceae	20
<u>Crataegus chrysocarpa</u>	"	2	<u>Deschampsia flexuosa</u>	"	11
<u>Crataegus coccinea</u>	"	1	<u>Deschampsia media</u>	"	1
<u>Crataegus douglasii</u>	"	9	<u>Desmodium canadensis</u>	Fabaceae	9

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Desmodium cinerascens</u>	Fabaceae	1	<u>Elymus pycnanthus</u>	Poaceae	1
<u>Desmodium intortum</u>	"	3	<u>Elymus racemosa</u>	"	1
<u>Deutzia gracilis</u>	Philadelphaceae	3	<u>Elymus sibiricus</u>	"	7
<u>Diapensia lapponica</u>	Diapensiaceae	1	<u>Elymus virginicus</u>	"	3
<u>Dievilla lonicera</u>	Caprifoliaceae	2	<u>Empetrum nigrum</u>	Empetraceae	4
<u>Dievilla sessilifolia</u>	"	1	<u>Enkianthus campanulatus</u>	Ericaceae	10
<u>Digitalis purpurea</u>	Scrophulariaceae	27	<u>Enneapogon persicus</u>	Poaceae	1
<u>Dodonaea attenuata</u>	Sapindaceae	2	<u>Ephedra distachya</u>	Ephedraceae	1
<u>Dodonaea lanceolata</u>	"	1	<u>Ephedra equisetina</u>	"	1
<u>Dodonaea viscosa</u>	"	1	<u>Epilobium anagallidifolium</u>	Onagraceae	1
<u>Dolichos cebra</u>	Fabaceae	1	<u>Epilobium angustifolium</u>	"	22
<u>Dolichos jacquinii</u>	"	1	<u>Epilobium hornmannii</u>	"	1
<u>Dolichos lablab</u>	"	6	<u>Epilobium lactiflorum</u>	"	1
<u>Dolichos ornatus</u>	"	3	<u>Epilobium montanum</u>	"	1
<u>Doronicum austriacum</u>	Asteraceae	2	<u>Epilobium palustre</u>	"	5
<u>Doronicum caucasicum</u>	"	2	<u>Epilobium spicatum</u>	"	1
<u>Doronicum pardalianches</u>	"	3	<u>Erigeron acris</u>	Asteraceae	8
<u>Dryas drummondii</u>	Rosaceae	1	<u>Erigeron alicae</u>	"	1
<u>Dryas octopetala</u>	"	9	<u>Erigeron alpinus</u>	"	4
<u>Echinacea angustifolia</u>	Asteraceae	3	<u>Erigeron annuus</u>	"	2
<u>Echinacea purpurea</u>	"	4	<u>Erigeron atticus</u>	"	1
<u>Echinops bannaticus</u>	"	2	<u>Erigeron aurantiacus</u>	"	6
<u>Elaeagnus angustifolia</u>	Elaeagnaceae	12	<u>Erigeron bellidifolius</u>	"	1
<u>Elaeagnus argentea</u>	"	1	<u>Erigeron bonariensis</u>	"	1
<u>Elaeagnus commutata</u>	"	6	<u>Erigeron borealis</u>	"	5
<u>Elymus arenarius</u>	Poaceae	9	<u>Erigeron candidus</u>	"	1
<u>Elymus canadensis</u>	"	2	<u>Erigeron compositus</u>	"	1
<u>Elymus caput-medusae</u>	"	1	<u>Erigeron crispum</u>	"	2
<u>Elymus condensatus</u>	"	2	<u>Erigeron eriocephalus</u>	"	1
<u>Elymus europaeus</u>	"	1	<u>Erigeron flagellaris</u>	"	1
<u>Elymus gigantius</u>	"	1	<u>Erigeron gaudinii</u>	"	1
<u>Elymus glaucus</u>	"	1	<u>Erigeron glabellus</u>	"	4
<u>Elymus paboanus</u>	"	1	<u>Erigeron glaucus</u>	"	2

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Erigeron grandiflorus</u>	Asteraceae	3	<u>Eschscholzia californica</u>	Papaveraceae	13
<u>Erigeron howellii</u>	"	1	<u>Eucalyptus almenioides</u>	Myrtaceae	1
<u>Erigeron humilis</u>	"	2	<u>Eucalyptus alpina</u>	"	1
<u>Erigeron karvinskianus</u>	"	1	<u>Eucalyptus amplifolia</u>	"	1
<u>Erigeron leiomerus</u>	"	1	<u>Eucalyptus amygdalina</u>	"	1
<u>Erigeron macranthus</u>	"	1	<u>Eucalyptus andreana</u>	"	1
<u>Erigeron mucronatus</u>	"	1	<u>Eucalyptus andrewsii</u>	"	1
<u>Erigeron naudini</u>	"	1	<u>Eucalyptus angulosa</u>	"	1
<u>Erigeron oreganus</u>	"	1	<u>Eucalyptus approximans</u>	"	1
<u>Erigeron orientalis</u>	"	1	<u>Eucalyptus baeuerlenii</u>	"	2
<u>Erigeron peregrinus</u>	"	1	<u>Eucalyptus bancroftii</u>	"	1
<u>Erigeron polymorphus</u>	"	1	<u>Eucalyptus banksii</u>	"	1
<u>Erigeron pulchellus</u>	"	2	<u>Eucalyptus baxteri</u>	"	2
<u>Erigeron radicans</u>	"	1	<u>Eucalyptus beyeri</u>	"	1
<u>Erigeron roylei</u>	"	1	<u>Eucalyptus blakelyi</u>	"	2
<u>Erigeron speciosus</u>	"	9	<u>Eucalyptus blaxlandii</u>	"	1
<u>Erigeron subtrinervis</u>	"	1	<u>Eucalyptus botryoides</u>	"	1
<u>Erigeron thunbergii</u>	"	1	<u>Eucalyptus caesia</u>	"	2
<u>Erigeron umbellatum</u>	"	1	<u>Eucalyptus caliginosa</u>	"	1
<u>Erigeron unalaschensis</u>	"	1	<u>Eucalyptus calophylla</u>	"	1
<u>Erigeron uniflorus</u>	"	3	<u>Eucalyptus camaldulensis</u>	"	1
<u>Erigeron venustus</u>	"	1	<u>Eucalyptus cambageana</u>	"	1
<u>Erigeron villarsii</u>	"	2	<u>Eucalyptus capitellata</u>	"	1
<u>Eriogonum umbellatum</u>	Polygonaceae	2	<u>Eucalyptus cephalocarpa</u>	"	1
<u>Erysimum hieraciifolium</u>	Brassicaceae	1	<u>Eucalyptus cinerea</u>	"	1
<u>Erysimum odoratum</u>	"	2	<u>Eucalyptus cladocalyx</u>	"	1
<u>Erythrina abyssinica</u>	Fabaceae	1	<u>Eucalyptus cneorifolia</u>	"	1
<u>Erythrina bogotensis</u>	"	1	<u>Eucalyptus cocciifera</u>	"	1
<u>Erythrina crista-galli</u>	"	2	<u>Eucalyptus cordata</u>	"	1
<u>Erythrina humeana</u>	"	1	<u>Eucalyptus cosmophylla</u>	"	1
<u>Erythrina lysistemon</u>	"	1	<u>Eucalyptus crebra</u>	"	3
<u>Erythrina viarum</u>	"	1	<u>Eucalyptus cyanophylla</u>	"	1
<u>Eschscholzia caespitosa</u>	Papaveraceae	1	<u>Eucalyptus dalrympleana</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Eucalyptus dealbata</u>	Myrtaceae	1	<u>Eucalyptus kruseana</u>	Myrtaceae	1
<u>Eucalyptus deanei</u>	"	1	<u>Eucalyptus leptophleba</u>	"	1
<u>Eucalyptus decipiens</u>	"	1	<u>Eucalyptus leptopoda</u>	"	1
<u>Eucalyptus delegatensis</u>	"	1	<u>Eucalyptus lesouefii</u>	"	1
<u>Eucalyptus diversifolia</u>	"	1	<u>Eucalyptus leucoxylon</u>	"	1
<u>Eucalyptus dives</u>	"	1	<u>Eucalyptus lirata</u>	"	1
<u>Eucalyptus dunnii</u>	"	1	<u>Eucalyptus longifolia</u>	"	1
<u>Eucalyptus dwyeri</u>	"	1	<u>Eucalyptus loxophleba</u>	"	1
<u>Eucalyptus elata</u>	"	1	<u>Eucalyptus luehmanniana</u>	"	1
<u>Eucalyptus eremophila</u>	"	1	<u>Eucalyptus macrorhyncha</u>	"	2
<u>Eucalyptus erythrocorys</u>	"	3	<u>Eucalyptus maculata</u>	"	1
<u>Eucalyptus eudesmoides</u>	"	1	<u>Eucalyptus maidenii</u>	"	2
<u>Eucalyptus eugenioides</u>	"	1	<u>Eucalyptus major</u>	"	1
<u>Eucalyptus exserta</u>	"	2	<u>Eucalyptus mannifera</u>	"	2
<u>Eucalyptus fasciculosa</u>	"	1	<u>Eucalyptus megacarpa</u>	"	1
<u>Eucalyptus fibrosa</u>	"	1	<u>Eucalyptus moluccana</u>	"	1
<u>Eucalyptus ficifolia</u>	"	1	<u>Eucalyptus morrisii</u>	"	1
<u>Eucalyptus flocktoniae</u>	"	1	<u>Eucalyptus muellerana</u>	"	1
<u>Eucalyptus gamophylla</u>	"	1	<u>Eucalyptus nesophila</u>	"	1
<u>Eucalyptus glabulus</u>	"	1	<u>Eucalyptus nitens</u>	"	1
<u>Eucalyptus globdidea</u>	"	1	<u>Eucalyptus nitida</u>	"	1
<u>Eucalyptus gomphocephala</u>	"	1	<u>Eucalyptus normantonensis</u>	"	1
<u>Eucalyptus griffithsii</u>	"	1	<u>Eucalyptus notabilis</u>	"	2
<u>Eucalyptus grossa</u>	"	1	<u>Eucalyptus nubilis</u>	"	1
<u>Eucalyptus incrassata</u>	"	1	<u>Eucalyptus occidentalis</u>	"	2
<u>Eucalyptus intermedia</u>	"	1	<u>Eucalyptus odorata</u>	"	1
<u>Eucalyptus intertexta</u>	"	2	<u>Eucalyptus oligantha</u>	"	1
<u>Eucalyptus johnstonii</u>	"	1	<u>Eucalyptus orbifolia</u>	"	1
<u>Eucalyptus jucunda</u>	"	1	<u>Eucalyptus orpetii</u>	"	1
<u>Eucalyptus kesselli</u>	"	1	<u>Eucalyptus ovata</u>	"	1
<u>Eucalyptus kingsmillii</u>	"	1	<u>Eucalyptus ovularis</u>	"	1
<u>Eucalyptus kitsoniana</u>	"	2	<u>Eucalyptus pachyloma</u>	"	1
<u>Eucalyptus kondininensis</u>	"	1	<u>Eucalyptus pachyphylla</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Eucalyptus parramattensis</u>	Myrtaceae	2	<u>Eucalyptus tenuiramis</u>	"	1
<u>Eucalyptus patens</u>	"	1	<u>Eucalyptus tereticornis</u>	"	1
<u>Eucalyptus pauciflora</u>	"	1	<u>Eucalyptus tessellaris</u>	"	1
<u>Eucalyptus pellita</u>	"	1	<u>Eucalyptus tetragona</u>	"	2
<u>Eucalyptus peltata</u>	"	1	<u>Eucalyptus todtiana</u>	"	1
<u>Eucalyptus perriniana</u>	"	2	<u>Eucalyptus trabuti</u>	"	1
<u>Eucalyptus phaeotricha</u>	"	1	<u>E. transcontinentalis</u>	"	1
<u>Eucalyptus pilularis</u>	"	1	<u>Eucalyptus triantha</u>	"	1
<u>Eucalyptus plancholiana</u>	"	1	<u>Eucalyptus triflora</u>	"	1
<u>Eucalyptus platycorys</u>	"	1	<u>Eucalyptus umbra</u>	"	1
<u>Eucalyptus platypus</u>	"	1	<u>Eucalyptus viminalis</u>	"	1
<u>Eucalyptus preissiana</u>	"	1	<u>Eucalyptus websteriana</u>	"	1
<u>Eucalyptus pulchella</u>	"	1	<u>Eucalyptus woollsiana</u>	"	1
<u>Eucalyptus pulverulenta</u>	"	1	<u>Eucalyptus youngiana</u>	"	1
<u>Eucalyptus pumila</u>	"	1	<u>Eucalyptus youmanii</u>	"	1
<u>Eucalyptus punctata</u>	"	1	<u>Eucalyptus zygophylla</u>	"	1
<u>Eucalyptus pyrocarpa</u>	"	1	<u>Eucalyptus species</u>	"	1
<u>Eucalyptus quadrangulata</u>	"	1	<u>Euonymus alata</u>	Celastraceae	8
<u>Eucalyptus redunca</u>	"	1	<u>Filipendula hexapetala</u>	Rosaceae	5
<u>Eucalyptus regnans</u>	"	1	<u>Fragaria virginiana</u>	"	1
<u>Eucalyptus robusta</u>	"	2	<u>Frangula alnus</u>	Rhamnaceae	32
<u>Eucalyptus rossii</u>	"	1	<u>Fraxinus pennsylvanica</u>	Oleaceae	4
<u>Eucalyptus rubida</u>	"	1	<u>Fremontodendron californicum</u>	Sterculiaceae	1
<u>Eucalyptus salmonophloia</u>	"	1	<u>Gaillardia aristata</u>	Asteraceae	5
<u>Eucalyptus sessilis</u>	"	1	<u>Gaillardia grandiflora</u>	"	4
<u>Eucalyptus sideroxylon</u>	"	2	<u>Gaillardia pulchella</u>	"	3
<u>Eucalyptus smithii</u>	"	1	<u>Galega officinalis</u>	Fabaceae	9
<u>Eucalyptus stellulata</u>	"	1	<u>Gaultheria procumbens</u>	Ericaceae	2
<u>Eucalyptus stenostoma</u>	"	1	<u>Geranium robertianum</u>	Geraniaceae	7
<u>Eucalyptus stowardii</u>	"	1	<u>Gilia achilleaefolia</u>	Polemoniaceae	7
<u>Eucalyptus striaticalyx</u>	"	1	<u>Gilia capitata</u>	"	7
<u>Eucalyptus stricklandii</u>	"	2	<u>Gleditsia monosperma</u>	Fabaceae	1
<u>Eucalyptus tenuipes</u>	"	1	<u>Gleditsia triacanthos</u>	"	8

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Grevillea crithmifolia</u>	Proteaceae	1	<u>Holodiscus dumosus</u>	Rosaceae	2
<u>Grevillea leucopteris</u>	"	1	<u>Hyparrhenia hirta</u>	Poaceae	2
<u>Grewia avellana</u>	Tiliaceae	1	<u>Hypericum androsaemum</u>	Clusiaceae	1
<u>Grewia biloba</u>	"	1	<u>Hypericum ascyron</u>	"	6
<u>Grewia flava</u>	"	1	<u>Hypericum calycinum</u>	"	1
<u>Grewia flavescens</u>	"	1	<u>Hypericum canariense</u>	"	3
<u>Grewia hexamita</u>	"	1	<u>Hypericum coris</u>	"	1
<u>Grewia hornbyi</u>	"	1	<u>Hypericum elatum</u>	"	1
<u>Grewia occidentalis</u>	"	1	<u>Hypericum patulum</u>	"	6
<u>Grewia pachycalyx</u>	"	1	<u>Hypericum reflexum</u>	"	2
<u>Grewia retinervis</u>	"	1	<u>Hypericum rhodeum</u>	"	1
<u>Grewia schinzii</u>	"	1	<u>Hypericum roeperanum</u>	"	1
<u>Grewia stolzii</u>	"	1	<u>Hypericum romanus</u>	"	1
<u>Grewia sulcata</u>	"	1	<u>Hypericum tetrapterum</u>	"	1
<u>Grewia villosa</u>	"	1	<u>Hypericum uralum</u>	"	1
<u>Hedysarum alpinum</u>	Fabaceae	3	<u>Hypericum webbii</u>	"	1
<u>Hedysarum arcticum</u>	"	2	<u>Hypochoeris radicata</u>	Asteraceae	12
<u>Hedysarum boreale</u>	"	1	<u>Iberis sempervirens</u>	Brassicaceae	6
<u>Hedysarum candidum</u>	"	1	<u>Impatiens capensis</u>	Balsaminaceae	1
<u>Hedysarum coronarium</u>	"	6	<u>Impatiens noli-tangere</u>	"	2
<u>Hedysarum hedysaroides</u>	"	3	<u>Iris missouriensis</u>	Iridaceae	5
<u>Hedysarum multijugum</u>	"	2	<u>Iris pseudacornus</u>	"	1
<u>Hedysarum tauricum</u>	"	1	<u>Iris setosa</u>	"	12
<u>Helianthus annuus</u>	Asteraceae	20	<u>Isopogon buxifolius</u>	Proteaceae	1
<u>Helianthus laetiflorus</u>	"	1	<u>Isopogon dubius</u>	"	1
<u>Helianthus tuberosus</u>	"	1	<u>Juglans nigra</u>	Juglandaceae	2
<u>Heliopsis scabra</u>	"	3	<u>Juniperus ashei</u>	Cupressaceae	1
<u>Hemerocallis citrina</u>	Liliaceae	1	<u>Juniperus cedrus</u>	"	3
<u>Hemerocallis flava</u>	"	6	<u>Juniperus chinensis</u>	"	2
<u>Hemerocallis</u>			<u>Juniperus communis</u>	"	21
<u>lilioasphodelus</u>	"	2	<u>Juniperus drupacea</u>	"	1
<u>Hesperis matronalis</u>	Brassicaceae	14	<u>Juniperus horizontalis</u>	"	1
<u>Hippophae rhamnoides</u>	Elaeagnaceae	18	<u>Juniperus occidentalis</u>	"	1
<u>Holodiscus discolor</u>	Rosaceae	9			

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Juniperus oxycedrus</u>	Cupressaceae	6	<u>Leucaena latisiliqua</u>	Fabaceae	5
<u>Juniperus phoenicea</u>	"	10	<u>Leucaena leucocephala</u>	"	3
<u>Juniperus pseudosabina</u>	"	1	<u>Leucanthemum vulgare</u>	Asteraceae	13
<u>Juniperus rigida</u>	"	1	<u>Liatris spicata</u>	"	14
<u>Juniperus sabina</u>	"	1	<u>Ligusticum mutillina</u>	Apiaceae	1
<u>Juniperus scopulorum</u>	"	2	<u>Ligusticum scoticum</u>	"	5
<u>Juniperus sibiricum</u>	"	3	<u>Ligustrina amurensis</u>	Oleaceae	1
<u>Juniperus squamata</u>	"	1	<u>Ligustrum ibota</u>	"	1
<u>Juniperus virginiana</u>	"	4	<u>Lilium bulbiferum</u>	Liliaceae	1
<u>Juniperus wallichiana</u>	"	1	<u>Limnanthes douglasii</u>	Limnanthaceae	3
<u>Kalmia latifolia</u>	Ericaceae	3	<u>Linaria genistifolia</u>	Scrophulariaceae	2
<u>Kennedia prostrata</u>	Fabaceae	1	<u>Linaria maroccana</u>	"	1
<u>Kochia prostrata</u>	Chenopodiaceae	2	<u>Lindelofia longiflora</u>	Buraginaceae	2
<u>Koeleria cristata</u>	Poaceae	2	<u>Linum perenne</u>	Linaceae	11
<u>Kunzea baxteri</u>	Myrtaceae	1	<u>Lobelia fulgens</u>	Campanulaceae	2
<u>Laburnum alpinum</u>	Fabaceae	1	<u>Loiseleuria procumbens</u>	Ericaceae	1
<u>Larix dicidua</u>	Pinaceae	1	<u>Lolium multiflorum</u>	Poaceae	19
<u>Larix gmelinii</u>	"	2	<u>Lolium perenne</u>	"	73
<u>Lathyrus japonicus</u>	Fabaceae	5	<u>Lolium remotum</u>	"	1
<u>Lathyrus latifolius</u>	"	20	<u>Lolium temulentum</u>	"	15
<u>Lathyrus palustris</u>	"	5	<u>Lonicera caerulea</u>	Caprifoliaceae	12
<u>Lathyrus sylvestris</u>	"	30	<u>Lonicera chrysantha</u>	"	4
<u>Lathyrus venosus</u>	"	2	<u>Lonicera floribunda</u>	"	1
<u>Lathyrus vernus</u>	"	5	<u>Lonicera fragrantissima</u>	"	3
<u>Lavandula angustifolia</u>	Lamiaceae	2	<u>Lonicera gibbiflora</u>	"	1
<u>Leersia oryzoides</u>	Poaceae	1	<u>Lonicera heterophylla</u>	"	1
<u>Leptospermum abnorme</u>	Myrtaceae	1	<u>Lonicera involucrata</u>	"	6
<u>Leptospermum flavescens</u>	"	3	<u>Lonicera korolkowii</u>	"	6
<u>Leptospermum lanigerum</u>	"	1	<u>Lonicera maackii</u>	"	10
<u>Leptospermum obovatum</u>	"	1	<u>Lonicera standishii</u>	"	3
<u>Leptospermum scoparium</u>	"	4	<u>Lonicera tatarica</u>	"	23
<u>Leptospermum stellatum</u>	"	1	<u>Lonicera xylosteoides</u>	"	1
<u>Leptospermum species</u>	"	1	<u>Lotus corniculatus</u>	Fabaceae	3

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Lotus pedunculatus</u>	Fabaceae	2	<u>Medicago polymorpha</u>	Fabaceae	16
<u>Lotus tenuis</u>	"	1	<u>Medicago sativa</u>	"	10
<u>Lotus uliginosus</u>	"	13	<u>Melaleuca adnata</u>	Myrtaceae	1
<u>Lupinus angustifolius</u>	"	1	<u>Melaleuca capitata</u>	"	1
<u>Lupinus arcticus</u>	"	4	<u>Melaleuca cheelii</u>	"	1
<u>Lupinus argenteus</u>	"	1	<u>Melaleuca diosmifolia</u>	"	1
<u>Lupinus luteus</u>	"	42	<u>Melaleuca elliptica</u>	"	2
<u>Lupinus nootkatensis</u>	"	3	<u>Melaleuca glomerata</u>	"	1
<u>Lupinus polyphyllus</u>	Fabaceae	12	<u>Melaleuca huegalii</u>	"	1
<u>Lupinus succulentus</u>	"	7	<u>Melaleuca hypericifolia</u>	"	2
<u>Lychnis chalcidonica</u>	Caryophyllaceae	9	<u>Melaleuca leucadendron</u>	"	1
<u>Lycium barbarum</u>	Solonaceae	1	<u>Melaleuca megacephala</u>	"	1
<u>Lycium chinense</u>	"	5	<u>Melaleuca polygaloides</u>	"	1
<u>Lycium paalidum</u>	"	1	<u>Melaleuca pubescens</u>	"	1
<u>Lythrum salicaria</u>	Lythraceae	19	<u>Melaleuca quinquenervia</u>	"	1
<u>Machaeranthera tanacetifolia</u>	Asteraceae	1	<u>Melaleuca seriata</u>	"	1
<u>Macroptilium atropurpureum</u>	Fabaceae	15	<u>Melaleuca teretifolia</u>	"	1
<u>Malus baccata</u>	Rosaceae	11	<u>Melaleuca viridiflora</u>	"	1
<u>Malus cerasifera</u>	"	1	<u>Melaleuca species</u>	"	1
<u>Malus communis</u>	"	1	<u>Melilotus alba</u>	Fabaceae	22
<u>Malus fusca</u>	"	1	<u>Melilotus officinalis</u>	"	10
<u>Malus micromalus</u>	"	1	<u>Mimulus guttatus</u>	Scrophulariaceae	8
<u>Malus praecox</u>	"	1	<u>Mimulus lewisii</u>	"	5
<u>Malus purpurea</u>	"	2	<u>Mimulus luteus</u>	"	12
<u>Malus sargentii</u>	"	2	<u>Miscanthus sinensis</u>	Poaceae	3
<u>Malus sieboldii</u>	"	1	<u>Molinia caerulea</u>	"	1
<u>Malus sylvestris</u>	"	9	<u>Monarda fistulosa</u>	Lamiaceae	11
<u>Malus transitoria</u>	"	2	<u>Myrica caroliniensis</u>	Myricaceae	1
<u>Malva moschata</u>	Malvaceae	13	<u>Myrica cerifera</u>	"	3
<u>Malva sylvestris</u>	"	8	<u>Myrica pensylvanica</u>	"	7
<u>Medicago falcata</u>	Fabaceae	3	<u>Nemophila maculata</u>	Hydrophyllaceae	5
<u>Medicago lupulina</u>	"	17	<u>Nemophila menziesii</u>	"	2
			<u>Nicotiana velutina</u>	Solonaceae	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Oenothera biennis</u>	Onagraceae	25	<u>Penstemon campanulatus</u>	Scrophulariaceae	7
<u>Oenothera caespitosa</u>	"	3	<u>Penstemon cardinalis</u>	"	1
<u>Oenothera erythrosepala</u>	"	5	<u>Penstemon confertus</u>	"	4
<u>Oenothera fruticosa</u>	"	5	<u>Penstemon cordifolius</u>	"	1
<u>Oenothera lamarckiana</u>	"	6	<u>Penstemon cyananthus</u>	"	1
<u>Oenothera muricata</u>	"	2	<u>Penstemon diffusus</u>	"	5
<u>Orobus vernus</u>	Fabaceae	1	<u>Penstemon digitalis</u>	"	2
<u>Oxytropis campestris</u>	"	2	<u>Penstemon diphyllus</u>	"	2
<u>Oxytropis halleri</u>	"	1	<u>Penstemon eatonii</u>	"	2
<u>Padus maheleb</u>	Rosaceae	1	<u>Penstemon fendleri</u>	"	1
<u>Padus racemosa</u>	"	1	<u>Penstemon garnet</u>	"	1
<u>Padus serotina</u>	"	2	<u>Penstemon gentianoides</u>	"	1
<u>Padus virginiana</u>	"	2	<u>Penstemon glaber</u>	"	1
<u>Panicum miliaceum</u>	Poaceae	1	<u>Penstemon gloxinoides</u>	"	1
<u>Panicum virgatum</u>	"	2	<u>Penstemon gracilis</u>	"	2
<u>Papaver commutatum</u>	Papaveraceae	1	<u>Penstemon grandiflorus</u>	"	3
<u>Papaver lapponicum</u>	"	2	<u>Penstemon hallii</u>	"	1
<u>Papaver nudicaule</u>	"	9	<u>Penstemon hartwegii</u>	"	1
<u>Papaver rhoeas</u>	"	19	<u>Penstemon heterophyllus</u>	"	2
<u>Paspalum dilatatum</u>	Poaceae	6	<u>Penstemon hibridus</u>	"	1
<u>Paspalum distichum</u>	"	1	<u>Penstemon hirsutum</u>	"	5
<u>Paspalum scrobiculatum</u>	"	1	<u>Penstemon laevigatus</u>	"	7
<u>Paspalum stoloniferum</u>	"	2	<u>Penstemon linarioides</u>	"	1
<u>Paspalum thunbergii</u>	"	1	<u>Penstemon menziesii</u>	"	3
<u>Paspalum urvillei</u>	"	2	<u>Penstemon newberryi</u>	"	3
<u>Penstemon acuminatus</u>	Scrophulariaceae	1	<u>Penstemon ovatus</u>	"	3
<u>Penstemon alpinus</u>	"	2	<u>Penstemon parryi</u>	"	1
<u>Penstemon arizonicus</u>	"	4	<u>Penstemon pinifolius</u>	"	1
<u>Penstemon attenuatus</u>	"	2	<u>Penstemon procerus</u>	"	3
<u>Penstemon azureus</u>	"	3	<u>Penstemon rattanii</u>	"	1
<u>Penstemon barbatus</u>	"	9	<u>Penstemon richardsonii</u>	"	3
<u>Penstemon barettae</u>	"	2	<u>Penstemon roezlii</u>	"	1
<u>Penstemon calycosus</u>	"	2	<u>Penstemon scouleri</u>	"	5

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Penstemon secundiflorus</u>	Scrophulariaceae	2	<u>Picea abies</u>	Pinaceae	3
<u>Penstemon serrulatus</u>	"	3	<u>Picea glauca</u>	"	2
<u>Penstemon stenopetalus</u>	"	1	<u>Picea pungens</u>	"	2
<u>Penstemon tolmiei</u>	"	1	<u>Pinus armandii</u>	"	1
<u>Penstemon utahensis</u>	"	1	<u>Pinus attenuata</u>	"	1
<u>Penstemon venustus</u>	"	1	<u>Pinus banksiana</u>	"	3
<u>Penstemon watsonii</u>	"	1	<u>Pinus brutia</u>	"	1
<u>Penstemon whippleanus</u>	"	1	<u>Pinus bungeana</u>	"	1
<u>Phacelia campanularia</u>	Hydrophyllaceae	4	<u>Pinus cannariensis</u>	"	4
<u>Phacelia franklinii</u>	"	1	<u>Pinus cembra</u>	"	3
<u>Phacelia tanacetifolia</u>	"	14	<u>Pinus clausa</u>	"	1
<u>Phalaris aquatica</u>	Poaceae	14	<u>Pinus densiflora</u>	"	2
<u>Phalaris arundinacea</u>	"	8	<u>Pinus echinata</u>	"	9
<u>Phalaris canariensis</u>	"	12	<u>Pinus elliotii</u>	"	8
<u>Phalaris minor</u>	"	6	<u>Pinus halepensis</u>	"	1
<u>Philadelphus caucasicus</u>	Philadelphaceae	2	<u>Pinus koraiensis</u>	"	3
<u>Philadelphus coronarius</u>	"	8	<u>Pinus lambertiana</u>	"	1
<u>Philadelphus gordonianus</u>	"	1	<u>Pinus monticola</u>	"	2
<u>Philadelphus lewesii</u>	"	3	<u>Pinus mugo</u>	"	5
<u>Philadelphus pekinensis</u>	"	1	<u>Pinus nigra</u>	"	5
<u>Philadelphus schrenkii</u>	"	3	<u>Pinus oocarpa</u>	"	1
<u>Philadelphus tenuifolius</u>	"	2	<u>Pinus palustris</u>	"	6
<u>Philadelphus tomentosa</u>	"	1	<u>Pinus parviflora</u>	"	1
<u>Photinia villosa</u>	Rosaceae	9	<u>Pinus peuce</u>	"	1
<u>Phragmites australis</u>	Poaceae	5	<u>Pinus pinaster</u>	"	5
<u>Phyllodoce aleutica</u>	Ericaceae	1	<u>Pinus pinea</u>	"	7
<u>Phyllodoce caerulea</u>	"	1	<u>Pinus ponderosa</u>	"	3
<u>Physocarpus amurensis</u>	Rosaceae	5	<u>Pinus pumila</u>	"	2
<u>Physocarpus capitatus</u>	"	5	<u>Pinus rigida</u>	"	3
<u>Physocarpus intermedius</u>	"	4	<u>Pinus stankewiczii</u>	"	1
<u>Physocarpus malvaceus</u>	"	1	<u>Pinus strobus</u>	"	4
<u>Physocarpus monogynus</u>	"	1	<u>Pinus sylvestris</u>	"	8
<u>Physocarpus opulifolius</u>	"	12	<u>Pinus taeda</u>	"	10

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Pinus thunbergii</u>	Pinaceae	1	<u>Prunus tenella</u>	Rosaceae	2
<u>Pinus virginiana</u>	"	2	<u>Prunus tomentosa</u>	"	1
<u>Pinus wallichiana</u>	"	2	<u>Prunus virginiana</u>	"	11
<u>Poa alpina</u>	Poaceae	1	<u>Psathyrostachys juncea</u>	Poaceae	4
<u>Poa ampla</u>	"	1	<u>Psoralea americana</u>	Fabaceae	1
<u>Poa angustifolia</u>	"	4	<u>Psoralea bituminosa</u>	"	11
<u>Poa compressa</u>	"	15	<u>Psoralea macrostachya</u>	"	1
<u>Poa glauca</u>	"	1	<u>Psoralea onobrychis</u>	"	1
<u>Poa nemoralis</u>	"	15	<u>Puccinellia distans</u>	Poaceae	7
<u>Poa palustris</u>	"	16	<u>Pyrus ussuriensis</u>	Rosaceae	1
<u>Poa trivialis</u>	"	8	<u>Ranunculus acris</u>	Ranunculaceae	9
<u>Polemonium acutiflorum</u>	Polemoniaceae	4	<u>Ranunculus flammula</u>	"	1
<u>Polemonium boreale</u>	"	1	<u>Ranunculus repens</u>	"	7
<u>Polemonium caeruleum</u>	"	15	<u>Ranunculus sceleratus</u>	"	6
<u>Polemonium pulcherrimum</u>	"	1	<u>Ranunculus trichophyllus</u>	"	1
<u>Potentilla fruticosa</u>	Rosaceae	5	<u>Reseda luteola</u>	Resedaceae	20
<u>Potentilla recta</u>	"	10	<u>Reseda scoparia</u>	"	1
<u>Poterium officinale</u>	"	1	<u>Rhamnus californica</u>	Rhamnaceae	1
<u>Pourthiaea villosa</u>	"	1	<u>Rhamnus catharticus</u>	"	15
<u>Prunus armeniaca</u>	"	1	<u>Rhamnus davuricus</u>	"	7
<u>Prunus avium</u>	"	4	<u>Rhamnus japonica</u>	"	3
<u>Prunus cerasifera</u>	"	3	<u>Rhamnus saxitilis</u>	"	4
<u>Prunus demissa</u>	"	1	<u>Rhododendron</u> <u>camtschaticum</u>	Ericaceae	2
<u>Prunus depressa</u>	"	1	<u>R. dauricum</u>	"	1
<u>Prunus dulcis</u>	"	1	<u>R. schlippenbachii</u>	"	4
<u>Prunus fruticosa</u>	"	1	<u>R. vaseyi</u>	"	3
<u>Prunus maackii</u>	"	2	<u>Rhus aromatica</u>	Anacardiaceae	4
<u>Prunus mandschurica</u>	"	1	<u>Rhus copallina</u>	"	3
<u>Prunus maritima</u>	"	1	<u>Rhus glabra</u>	"	3
<u>Prunus padus</u>	"	2	<u>Rhus typhina</u>	"	14
<u>Prunus pensylvanica</u>	"	3	<u>Ribes atropurpureum</u>	Grossulariaceae	1
<u>Prunus pumila</u>	"	3	<u>Ribes aureum</u>	"	4
<u>Prunus serotina</u>	"	9	<u>Ribes meyeri</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Ribes odoratum</u>	Grossulariaceae	1	<u>Rosa hugonis</u>	Rosaceae	1
<u>Ribes petraeum</u>	"	3	<u>Rosa iliensis</u>	"	4
<u>Rosa acicularis</u>	Rosaceae	11	<u>Rosa jundzellii</u>	"	2
<u>Rosa agrestis</u>	"	2	<u>Rosa laxa</u>	"	3
<u>Rosa alba</u>	"	1	<u>Rosa majalis</u>	"	3
<u>Rosa albertii</u>	"	1	<u>Rosa maracandica</u>	"	1
<u>Rosa arkansana</u>	"	1	<u>Rosa marretii</u>	"	2
<u>Rosa beggariana</u>	"	3	<u>Rosa micrantha</u>	"	1
<u>Rosa bella</u>	"	1	<u>Rosa mollis</u>	"	1
<u>Rosa blanda</u>	"	5	<u>Rosa montana</u>	"	1
<u>Rosa brunonii</u>	"	1	<u>Rosa moyesii</u>	"	6
<u>Rosa canina</u>	"	30	<u>Rosa multibracteata</u>	"	1
<u>Rosa carolina</u>	"	1	<u>Rosa muriculata</u>	"	1
<u>Rosa caudata</u>	"	1	<u>Rosa nitida</u>	"	1
<u>Rosa centifolia</u>	"	3	<u>Rosa nutkana</u>	"	2
<u>Rosa chinensis</u>	"	2	<u>Rosa omiensis</u>	"	2
<u>Rosa coriifolia</u>	"	1	<u>Rosa omissa</u>	"	2
<u>Rosa corymbifera</u>	"	1	<u>Rosa palustris</u>	"	2
<u>Rosa damascena</u>	"	2	<u>Rosa pendulina</u>	"	7
<u>Rosa davidii</u>	"	1	<u>Rosa pimpinellifolia</u>	"	11
<u>Rosa davurica</u>	"	1	<u>Rosa pisocarpa</u>	"	2
<u>Rosa dupontii</u>	"	1	<u>Rosa pouzinii</u>	"	1
<u>Rosa ecae</u>	"	1	<u>Rosa prattii</u>	"	1
<u>Rosa fedtschenkoana</u>	"	1	<u>Rosa pulverulenta</u>	"	1
<u>Rosa forrestiana</u>	"	1	<u>Rosa roxburghii</u>	"	3
<u>Rosa gallica</u>	"	6	<u>Rosa rubiginosa</u>	"	6
<u>Rosa giraldii</u>	"	1	<u>Rosa rubrifolia</u>	"	4
<u>Rosa glauca</u>	"	5	<u>Rosa rugosa</u>	"	27
<u>Rosa gultinosa</u>	"	1	<u>Rosa sancti-andreae</u>	"	1
<u>Rosa gymnocarpa</u>	"	1	<u>Rosa sempervirens</u>	"	3
<u>Rosa heleniae</u>	"	1	<u>Rosa serafinii</u>	"	2
<u>Rosa hemsleyana</u>	"	1	<u>Rosa setipoda</u>	"	1
<u>Rosa hirtula</u>	"	1	<u>Rosa sinowilsonii</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Rosa soulieana</u>	Rosaceae	1	<u>Salvia judaica</u>	Lamiaceae	1
<u>Rosa spinosissima</u>	"	4	<u>Salvia lanigera</u>	"	1
<u>Rosa sweginzowii</u>	"	2	<u>Salvia microstigia</u>	"	1
<u>Rosa tomentosa</u>	"	2	<u>Salvia officinalis</u>	"	1
<u>Rosa tuschetica</u>	"	2	<u>Salvia palaestina</u>	"	1
<u>Rosa ultramontana</u>	"	1	<u>Salvia patens</u>	"	1
<u>Rosa villosa</u>	"	11	<u>Salvia pinnata</u>	"	1
<u>Rosa virginiana</u>	"	1	<u>Salvia samuelssonii</u>	"	1
<u>Rosa waitziana</u>	"	1	<u>Salvia sclarea</u>	"	1
<u>Rosa watsoniana</u>	"	2	<u>Salvia spinosa</u>	"	1
<u>Rosa webbiana</u>	"	1	<u>Salvia splendens</u>	"	1
<u>Rosa wichuriana</u>	"	1	<u>Salvia syriaca</u>	"	1
<u>Rosa willmottiae</u>	"	1	<u>Sambucus canadensis</u>	Caprifoliaceae	8
<u>Rosa woodsii</u>	"	3	<u>Sambucus glauca</u>	"	5
<u>Rosa xanthina</u>	"	2	<u>Sambucus nigra</u>	"	40
<u>Rubus fruticosus</u>	"	2	<u>Sambucus pubens</u>	"	4
<u>Rubus idaeus</u>	"	4	<u>Sambucus racemosa</u>	"	32
<u>Rubus laciniatus</u>	"	5	<u>Sanguisorba canadensis</u>	Rosaceae	2
<u>Rubus vulgaris</u>	"	1	<u>Sanguisorba officinalis</u>	"	6
<u>Rudbeckia hirta</u>	Asteraceae	4	<u>Sanguisorba sitchensis</u>	"	1
<u>Rumex confertus</u>	Polygonaceae	1	<u>Saponaria officinalis</u>	Caryophyllaceae	36
<u>Salix lanata</u>	Salicaceae	2	<u>Saxifraga aizoon</u>	Saxafragaceae	1
<u>Salix pentandra</u>	"	1	<u>Scirpus americanus</u>	Cyperaceae	2
<u>Salvia aegyptiaca</u>	Lamiaceae	1	<u>Scirpus caespitosus</u>	"	1
<u>Salvia aurea</u>	"	2	<u>Scirpus cernuus</u>	"	1
<u>Salvia azurea</u>	"	1	<u>Scirpus cyperinus</u>	"	1
<u>Salvia broussonetii</u>	"	1	<u>Scirpus fluitan</u>	"	1
<u>Salvia coccinea</u>	"	1	<u>Scirpus holoschoenus</u>	"	3
<u>Salvia dominica</u>	"	1	<u>Scirpus hudsonianus</u>	"	1
<u>Salvia eigii</u>	"	1	<u>Scirpus juncooides</u>	"	1
<u>Salvia fruticosa</u>	"	1	<u>Scirpus lacustris</u>	"	9
<u>Salvia hierosolymitana</u>	"	1	<u>Scirpus maritimus</u>	"	2
<u>Salvia indica</u>	"	1	<u>Scirpus microcarpus</u>	"	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Scirpus paludosus</u>	Cyperaceae	1	<u>Spiraea chamaedryfolia</u>	Rosaceae	4
<u>Scirpus palustris</u>	"	1	<u>Spiraea corymbosa</u>	"	1
<u>Scirpus setaceus</u>	"	1	<u>Spiraea densiflora</u>	"	3
<u>Scirpus sylvaticus</u>	"	5	<u>Spiraea filipendula</u>	"	2
<u>Sedum acre</u>	Crassulaceae	9	<u>Spiraea gemmata</u>	"	1
<u>Sedum lanceolatum</u>	"	1	<u>Spiraea japonica</u>	"	9
<u>Senecio anteuphorbium</u>	Asteraceae	1	<u>Spiraea lucida</u>	"	1
<u>Senecio cineraria</u>	"	1	<u>Spiraea media</u>	"	3
<u>Senecio grandifolius</u>	"	1	<u>Spiraea nipponica</u>	"	6
<u>Senecio magnificus</u>	"	1	<u>Spiraea trilobata</u>	"	2
<u>Senecio murrayi</u>	"	1	<u>Spiraea ulmaria</u>	"	1
<u>Senecio palmensis</u>	"	1	<u>Spiraea wilsonii</u>	"	1
<u>Senecio petasitis</u>	"	1	<u>Stenactis speciosus</u>	Asteraceae	1
<u>Senecio webbii</u>	"	1	<u>Stokesia cyanea</u>	"	1
<u>Shepherdia argentea</u>	Elaeagnaceae	1	<u>Symphoricarpos albus</u>	Caprifoliaceae	6
<u>Shepherdia canadensis</u>	"	2	<u>S. chenaultii</u>	"	3
<u>Silene acaulis</u>	Caryophyllaceae	1	<u>S. occidentalis</u>	"	3
<u>Silene armeria</u>	"	7	<u>S. orbiculatus</u>	"	12
<u>Silene inaperta</u>	"	4	<u>S. oreophilus</u>	"	2
<u>Silene maritima</u>	"	2	<u>S. racemosus</u>	"	1
<u>Silene rupestris</u>	"	1	<u>Syringa amurensis</u>	Oleaceae	1
<u>Silene vulgaris</u>	"	1	<u>Syringa emodi</u>	"	1
<u>Silphium laciniatum</u>	Asteraceae	4	<u>Syringa komarowii</u>	"	1
<u>Sitanion hystrix</u>	Poaceae	1	<u>Syringa sweginzowii</u>	"	2
<u>Sophora velutina</u>	Fabaceae	1	<u>Syringa villosa</u>	"	2
<u>Sophora vicifolia</u>	"	1	<u>Syringa vulgaris</u>	"	4
<u>Sorbaria sorbifolia</u>	Rosaceae	11	<u>Tagetes erecta</u>	Asteraceae	10
<u>Spartina pectinata</u>	Poaceae	2	<u>Tagetes patula</u>	"	8
<u>Sphaeralcea eremicola</u>	Malvaceae	1	<u>Tanacetum boreale</u>	"	1
<u>Spiraea alba</u>	Rosaceae	1	<u>Tanacetum vulgare</u>	"	13
<u>Spiraea albiflora</u>	"	1	<u>Taxus baccata</u>	Taxaceae	7
<u>Spiraea betulifolia</u>	"	1	<u>Teramnus labialis</u>	Fabaceae	5
<u>Spiraea bullata</u>	"	1	<u>Thalictrum collinum</u>	Ranunculaceae	1

<u>Name</u>	<u>Family</u>	<u>No.</u>	<u>Name</u>	<u>Family</u>	<u>No.</u>
<u>Thalictrum squarrosu</u>	Ranunculaceae	1	<u>Viburnum lentago</u>	Caprifoliaceae	9
<u>Thermopsis montana</u>	Fabaceae	2	<u>Viburnum nudum</u>	"	1
<u>Thuja occidentalis</u>	Cupressaceae	14	<u>Viburnum opulus</u>	"	35
<u>Thuja orientalis</u>	"	11	<u>Viburnum orientale</u>	"	1
<u>Tilia cordata</u>	Tiliaceae	8	<u>Viburnum prunifolium</u>	"	2
<u>Trifolium alpestre</u>	Fabaceae	1	<u>Viburnum pubescens</u>	"	1
<u>Trifolium alpinum</u>	"	1	<u>V. rhytidophylloides</u>	"	1
<u>Trifolium ambiguum</u>	"	2	<u>V. rhytidophyllum</u>	"	5
<u>Trifolium angustifolium</u>	"	1	<u>Viburnum rufidulum</u>	"	1
<u>Trifolium arvense</u>	"	26	<u>Viburnum sargentii</u>	"	5
<u>Trifolium aureum</u>	"	4	<u>Viburnum trilobum</u>	"	4
<u>Trifolium badium</u>	"	1	<u>Vicia cassubica</u>	Fabaceae	3
<u>Trifolium campestre</u>	"	12	<u>Vicia cordata</u>	"	1
<u>Trifolium dubium</u>	"	1	<u>Vicia cracca</u>	"	7
<u>Trifolium lupinaster</u>	"	1	<u>Vicia dalmatica</u>	"	1
<u>Trifolium medium</u>	"	6	<u>Vicia gigantea</u>	"	1
<u>Trifolium montanum</u>	"	1	<u>Vicia hirsuta</u>	"	1
<u>Trifolium ochroleucon</u>	"	1	<u>Vicia orobus</u>	"	2
<u>Trifolium pannonicum</u>	"	1	<u>Vicia pisiformis</u>	"	2
<u>Trifolium pratense</u>	"	1	<u>Vicia sativa</u>	"	1
<u>Trifolium rubens</u>	"	1	<u>Vicia sepium</u>	"	16
<u>Trifolium spumosum</u>	"	1	<u>Vicia sylvatica</u>	"	1
<u>Trifolium stellatum</u>	"	4	<u>Vicia tetrasperma</u>	"	1
<u>Trifolium subterraneum</u>	"	1	<u>Vicia villosa</u>	"	1
<u>Trifolium wormskjoldii</u>	"	1	<u>Vigna luteola</u>	"	3
<u>Vaccinium vitis-idaea</u>	Ericaceae	4			
<u>Valantia hispita</u>	Rubiaceae	1			
<u>Viburnum burejaeticum</u>	Caprifoliaceae	1			
<u>Viburnum carlesii</u>	"	4			
<u>Viburnum cassinoides</u>	"	1			
<u>Viburnum dentatum</u>	"	6			
<u>Viburnum edule</u>	"	1			
<u>Viburnum lantana</u>	"	25			

Plant Materials Acquired from SEA Regional Plant Introduction Stations

The NPMC serves as coordinator for the acquisition of all accessions from regional plant introduction stations for use by field plant materials centers. These regional plant introduction stations of the Science and Education Administration are located at Geneva, New York; Ames, Iowa; Experiment, Georgia; and Pullman, Washington.

Following is a list of field PMC's and plant materials received from the regional plant introduction stations in 1980:

<u>Species</u>	<u>Number of Accessions</u>
Americus, Georgia PMC	
<u>Glycine wightii</u>	1
Big Flats, New York PMC	
<u>Trifolium agrarium</u>	1
Lockeford, California PMC	
<u>Agropyron elongatum</u>	35
<u>Agropyron intermedium</u>	44
<u>Agropyron intermedium</u> var. <u>trichophorum</u>	47
<u>Elymus</u> sp.	2
<u>Festuca arundinacea</u>	11
<u>Juniper communis</u>	3
Quicksand, Kentucky PMC	
<u>Poa trivialis</u>	1
Rose Lake, Michigan PMC	
<u>Calamagrostis epigeios</u>	1

Literature Reviews

The NPMC receives numerous requests for information on plants, their culture, and use in conservation. Requests come from field plant materials centers, plant materials specialists, state and federal agencies, research organizations, and private individuals in this country and abroad. To service these requests, the NPMC maintains a generic file and utilizes the literature search capability of the National Agricultural Library (NAL). Publications cited in the searches can be requested and copies received from the NAL or other sources. Some of the major topics researched in 1980 were:

<u>Topic</u>	<u>Requestor</u>	<u>Publications Received</u>
<u>Agropyron smithii</u> - distribution, propagation, utilization, physiology, ecology, uses	NM PMC	
<u>Alnus glutinosa</u> - germination, growth, nitrogen fixation	GA PMS	12
<u>Amelanchier</u> sp. - distribution, propagation, use, physiology, ecology	NM PMC	
<u>Antheophora</u> sp. - propagation, use, disease, weed control	NM PMC	
<u>Artemesia</u> sp. - distribution, propagation, use, physiology, associated species	NM PMC	
<u>Arundo donax</u> - propagation, growth, culture, seed processing	GA PMS	10
<u>Atriplex canadensis</u> - management, growth, salt tolerance, propagation, moisture stress tolerance, coal mine reclamation	NM PMC	
<u>Atriplex confertifolia</u> - growth, seeding, establishment, propagation, uses, distribution	NM PMC	
<u>Bouteloua curtipendula</u> - distribution, use, propagation, physiology, forage, mine spoil reclamation	NM PMC	
<u>Bouteloua gracilis</u> - distribution, use, propagation, physiology, ecology, cultural practices	NM PMC	

<u>Topic</u>	<u>Requestor</u>	<u>Publications Received</u>
<u>Bouteloua hirsuta</u> - distribution, use, propagation, physiology, ecology	NM PMC	
<u>Buchloe dactyloides</u> - distribution, propagation, use, physiology, ecology	NM PMC	
<u>Calamovilfa gigantea</u> - distribution, propagation, use, seedling, establishment	NM PMC	
<u>Ceanothus fendleri</u> - distribution, propagation, use, physiology, ecology	NM PMC	
<u>Chilopsis linearis</u> - distribution, propagation, physiology, use in windbreaks	NM PMC	
<u>Couania mexicana</u> - distribution, propa- gation, use, physiology, associated species	NM PMC	
<u>Dactylis glomerata</u> - drought tolerance	WV PMS	
<u>Distichis stricta</u> - distribution, propa- gation, physiology, ecology, use in landscape	NM PMC	
<u>Eurotia lanata</u> - propagation, establish- ment, use, physiology	NM PMC	
<u>Fallugia paradoxa</u> - distribution, propa- gation, use, physiology	NM PMC	
<u>Gaillardia pennatifida</u> - distribution, propagation, use, physiology, ecology	NM PMC	
<u>Hilaria belangeri</u> - distribution, propa- gation, use, physiology, ecology	NM PMC	
<u>Hilaria jamesii</u> - distribution, propa- gation, use, physiology	NM PMC	
<u>Imperata cylindrica</u> - distribution, forage value, control, response to grazing and fertilization	FL PMC	

<u>Topic</u>	<u>Requestor</u>	<u>Publications Received</u>
<u>Juniperus monosperma</u> - distribution, propagation, physiology, use as windbreak and screen	NM PMC	
<u>Juniperus scopulorum</u> - propagation, physiology, cultural practices, use as windbreak	NM PMC	
<u>Juniperus virginiana</u> - distribution, use, propagation, physiology, culture, ecology	NM PMC	
<u>Juniperus</u> sp. - dispersal, adaptation, pests, effect on forage, effect of fire	WI PMS	12
<u>Koeleria cristata</u> - distribution, propa- gation, uses, physiology, associated species	NM PMC	
<u>Lathyrus sylvestris</u> - culture, use, chemical composition	WV PMS	1
<u>Leptochloa dukia</u> - distribution, propa- gation, use, physiology, associated species	NM PMC	
<u>Lycurus phleoides</u> - distribution, use, propagation, production	NM PMC	
<u>Medicago sativa</u> - distribution, propa- gation, physiology, use, drought tolerance	NM PMC	
<u>Muhlenbergia richardsonis</u> - distribution, use, propagation, physiology, ecology	NM PMC	
<u>Oryzopsis hymenoides</u> - distribution, use, propagation, physiology	NM PMC	
<u>Panicum obtusum</u> - distribution, use, propagation, physiology, ecology	NM PMC	
<u>Parthenocissus quinquefolia</u> - ecology, use, distribution, propagation, physiology	NM PMC	
<u>Paulownia</u> sp. - use in reclamation, effect of herbicide and growth regulators	GA PMS	4

<u>Topic</u>	<u>Requestor</u>	<u>Publications Received</u>
<u>Pinus edulis</u> - distribution, propagation, ecology, physiology, culture, use	NM PMC	
<u>Pinus ponderosa</u> - propagation, seedling establishment, germination, culture, use in windbreaks	NM PMC	
<u>Potentilla fruticosa</u> - distribution, propagation, physiology, ecology, use in landscaping and mine spoil reclamation	NM PMC	
<u>Prunus lonceolata</u> - distribution, propagation, use, physiology, ecology	NM PMC	
<u>Prunus virginiana</u> var. <u>demissa</u> - distribution, propagation, uses, culture	NM PMC	
<u>Psoralea lanceolata</u> - distribution, propagation, physiology, ecology, use	NM PMC	
<u>Purshia tridentata</u> - distribution, propagation, uses, physiology, associated species	NM PMC	
<u>Rhus trilobata</u> - distribution, propagation, use, physiology, ecology, culture	NM PMC	
<u>Sitanion hystrix</u> - distribution, propagation, use	NM PMC	
<u>Sphaeralcea coccinea</u> - bud gall	NM PMC	
<u>Sporobolus cryptandrus</u> - distribution, use, physiology, propagation, associated species	NM PMC	
<u>Sporobolus wrightii</u> - distribution, propagation, use, physiology, ecology	NM PMC	
<u>Sporobolus</u> sp. - ecology, nutrition, control, forage quality, water stress, pasture revegetation, effect of innundation	NM PMC	

<u>Topic</u>	<u>Requestor</u>	<u>Publications Received</u>
<u>Stipa</u> sp. - distribution, propagation, use, physiology, associated species	NM PMC	
<u>Thuja orientalis</u> - distribution, propa- gation, culture, physiology, uses, ecology	NM PMC	
<u>Tripsacum dactyloides</u> - culture, morphology, cytology, use in range	KS PMC	6
<u>Vicia</u> sp. - distribution, propagation, use, physiology, ecology, culture	NM PMC	
<u>Zinnia pumila</u> - distribution, propa- gation, use, physiology, ecology, culture	NM PMC	
<u>Grasses</u> - tolerant to common herbicides use for weed control in soybeans and cotton	MS PMS	
<u>Grasses</u> - for waterways resistant to herbicides used in corn and soybeans	MO PMC	
<u>Legumes</u> - persistent in tall fescue pasture and enhancing the forage quality	MO PMC	
<u>Legumes</u> - native to the northeast, use for coal mine reclamation, soil conservation, forage, wildlife	WV PMS	
<u>Legumes</u> - native to the southwest	NM PMC	
<u>Forbs</u> - native to the southwest	NM PMC	
<u>Forb-seed storage</u> - longevity, quality, viability, cultivation, reclamation	NY PMC	50
<u>Vegetation</u> - for use in extremely acid mine spoil areas	MS PMS	16
<u>Vegetation</u> - used for erosion control on fresh water shorelines	GA PMS	
<u>Vegetation</u> - use for surface mine reclama- tion in the southwest; mulch, forbs trees, grass, legumes, irrigation	NM PMC	

<u>Topic</u>	<u>Requestor</u>	<u>Publications Received</u>
<u>Vegetation</u> - native to the York Canyon Area near Raton, New Mexico; in the Four Corners area of New Mexico, Arizona, Utah, Colorado; Taos, New Mexico; and Red River area, near Questa, New Mexico	NM PMC	
<u>Seed</u> - cleaning, damage, processing, mechanical	MO PMS	
<u>Tissue Culture</u> - techniques and use in plant propagation	NM PMC	
<u>Cover Crops</u> - used in vineyards: culture and management, effect on frost damage to grapes, water stress on grapes	NY PMS	37

Seed Production - 1980

During 1980 the National Plant Materials Center produced seed of 168 accessions of 67 species of plants which were requested by field PMC's.

Grasses

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-6641	<u>Alopecurus geniculatus</u>	Denmark	Trace
T-6642	<u>Alopecurus geniculatus</u>	Denmark	1
T-6643	<u>Alopecurus pratensis</u>	France	Trace
380671	<u>Alopecurus pratensis</u>	Iran	Trace
380672	<u>Alopecurus pratensis</u>	Iran	Trace
T-7131	<u>Bromus ramosus</u> ssp. <u>benekeni</u>	Denmark	55
T-7132	<u>Bromus ramosus</u>	Denmark	2
T-7133	<u>Bromus ramosus</u> ssp. <u>ramosus</u>	Denmark	65
380770	<u>Bromus tomentellus</u>	Iran	Trace
380772	<u>Bromus tomentellus</u>	Iran	Trace
380774	<u>Bromus tomentellus</u>	Iran	Trace
384811	<u>Bromus tomentellus</u>	Iran	10
384817	<u>Bromus tomentellus</u>	Iran	1.4
384818	<u>Bromus tomentellus</u>	Iran	Trace
325240	<u>Calamagrostis arundinacea</u>	USSR	Trace
T-12676	<u>Dactylis glomerata</u>	Wales	Trace
368881	<u>Dactylis glomerata</u>	Portugal	5
T-7149	<u>Dactylis marina</u>	Portugal	8
346967	<u>Dactylis marina</u>	Wales	3
346968	<u>Dactylis marina</u>	Portugal	7
346969	<u>Dactylis marina</u>	Wales	2

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-11430	<u>Dactylis polygama</u>	Romania	1
T-10477	<u>Danthonia spicata</u>	Canada	1
T-6777	<u>Deschampsia caespitosa</u>	Norway	Trace
345978	<u>Elymus arenarius</u>	Norway	12
T-11520	<u>Lolium perenne</u>	Romania	Trace
T-12716	<u>Lolium perenne</u>	France	Trace
T-12719	<u>Lolium perenne</u>	France	Trace
T-10487	<u>Lolium temulentum</u>	Denmark	26
T-10488	<u>Lolium temulentum</u>	France	3
T-10489	<u>Lolium temulentum</u>	France	30
T-11523	<u>Lolium temulentum</u>	Romania	46
T-11699	<u>Lolium temulentum</u>	Poland	37
T-11728	<u>Lolium temulentum</u>	Switzerland	67
T-12725	<u>Lolium temulentum</u>		30
T-12726	<u>Lolium temulentum</u>	Switzerland	48
T-12727	<u>Lolium temulentum</u>	W. Germany	14
T-12728	<u>Lolium temulentum</u>	E. Germany	26
T-10490	<u>Paspalum dilatatum</u>	Denmark	227
T-10491	<u>Paspalum dilatatum</u>	France	364
T-10492	<u>Paspalum prostratum</u>	Denmark	3
T-10494	<u>Paspalum stoloniferum</u>	Hungary	Trace
T-10495	<u>Paspalum vaginatum</u>	France	3
T-11169	<u>Phalaris aquatica</u>	Greece	Trace
410370	<u>Tetrachne dregei</u>	S. Africa	Trace

Legumes

<u>PI or T Numbers</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-10504	<u>Biserrula pelecinus</u>	Denmark	11
T-10505	<u>Biserrula pelecinus</u>	Greece	10
322325	<u>Cassia</u> sp.	Brazil	Trace
T-10506	<u>Coronilla coronata</u>	W. Germany	Trace
T-10509	<u>Coronilla varia</u>	Canada	1
T-10513	<u>Coronilla varia</u>	Hungary	Trace
T-12674	<u>Coronilla varia</u>	Hungary	2
T-11751	<u>Desmodium canadense</u>	Switzerland	Trace
T-6786	<u>Desmodium</u> sp.	Mexico	3
T-10515	<u>Dolichos bicolor</u>	Denmark	10
T-10518	<u>Dolichos lablab</u>	Denmark	14
T-13211	<u>Dolichos lablab</u>	England	7
T-10519	<u>Dolichos leucomelas</u>	Denmark	51
T-10520	<u>Dolichos ornatus</u>	Denmark	17
T-6646	<u>Lathyrus japonicus</u>	Denmark	Trace
T-6848	<u>Lathyrus japonicus</u>	Greenland	2
T-6920	<u>Lespedeza</u> sp.	Korea	37
T-12729	<u>Lotus pedunculatus</u>	Portugal	1
T-12730	<u>Lotus tenuis</u>	W. Germany	44
T-12731	<u>Lotus uliginosus</u>	France	Trace
T-11323	<u>Lotus</u> sp.		3
T-18751	<u>Lotus</u> sp.		2
T-12739	<u>Macroptilium atropurpurea</u>	Cuba	53
T-10565	<u>Medicago polymorpha</u>	Italy	7

<u>PI or T Numbers</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-10566	<u>Medicago polymorpha</u>	Portugal	5
T-11150	<u>Medicago polymorpha</u>	Greece	5
T-11151	<u>Medicago polymorpha</u>	Greece	3
T-11152	<u>Medicago polymorpha</u>	Greece	13
T-11153	<u>Medicago polymorpha</u>	Greece	5
T-11754	<u>Medicago polymorpha</u>	Switzerland	5
T-12415	<u>Medicago polymorpha</u>	Australia	3
T-12732	<u>Medicago polymorpha</u>	Czech.	4
T-12733	<u>Medicago polymorpha</u>	Italy	44
T-12734	<u>Medicago polymorpha</u>	Greece	Trace
T-12735	<u>Medicago polymorpha</u>	Morocco	1.7
T-12736	<u>Medicago polymorpha</u>	Bulgaria	1
T-12737	<u>Medicago polymorpha</u>	China	1
T-13220	<u>Medicago polymorpha</u>	England	Trace
238352	<u>Psoralea bituminosa</u>	Spain	73
283966	<u>Psoralea bituminosa</u>	France	6
T-17273	<u>Vicia melanops</u>	USSR	68
349271	<u>Vicia melanops</u>	Germany	31
T-7112	<u>Vicia sepium</u>	Norway	1
T-7113	<u>Vicia sepium</u>	Norway	Trace
T-7114	<u>Vicia sepium</u>	Denmark	Trace
T-7115	<u>Vicia sepium</u>	Denmark	2
308119	<u>Vicia sepium</u>	Czech.	Trace
346068	<u>Vicia sepium</u>	Norway	Trace
346069	<u>Vicia sepium</u>	Norway	2

Others

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-4836	<u>Achillea filipendulina</u>		3
T-19019	<u>Achillea filipendulina</u>	Poland	2.7
T-6627	<u>Achillea millefolium</u>	Denmark	40
T-6629	<u>Achillea millefolium</u>	Greenland	27
T-10600	<u>Achillea millefolium</u>	Canada	1
T-10601	<u>Achillea millefolium</u>	Denmark	Trace
T-10602	<u>Achillea millefolium</u>	Denmark	12
T-10603	<u>Achillea millefolium</u>	Greenland	1.4
T-10604	<u>Achillea millefolium</u>	Italy	Trace
T-10606	<u>Achillea millefolium</u>	Hungary	1.7
T-10607	<u>Achillea millefolium</u>	Hungary	11
T-10608	<u>Achillea millefolium</u>	Norway	2.3
T-10609	<u>Achillea millefolium</u>	France	3
T-10610	<u>Achillea millefolium</u>	France	8
T-10611	<u>Achillea millefolium</u>	USSR	Trace
T-11404	<u>Achillea millefolium</u>	Romania	10
T-11422	<u>Achillea millefolium</u>	Romania	3
T-11433	<u>Achillea millefolium</u>	Romania	7
T-11434	<u>Achillea millefolium</u>	Romania	4
T-11467	<u>Achillea millefolium</u>	Romania	20
T-11646	<u>Achillea millefolium</u>	Poland	40
T-12611	<u>Achillea millefolium</u>	Switzerland	3
T-12821	<u>Achillea millefolium</u>	France	5
T-6630	<u>Achillea ptarmica</u>	Norway	Trace

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-6631	<u>Achillea ptarmica</u>	Denmark	2
T-10612	<u>Achillea ptarmica</u>	Denmark	Trace
T-10613	<u>Achillea ptarmica</u>	W. Germany	Trace
T-11403	<u>Achillea ptarmica</u>	Romania	1
T-12239	<u>Achillea ptarmica</u>	W. Germany	5
T-12240	<u>Achillea ptarmica</u>	France	Trace
T-12241	<u>Achillea ptarmica</u>	France	9
T-12242	<u>Achillea ptarmica</u>	France	Trace
T-12822	<u>Achillea ptarmica</u>	France	Trace
T-6664	<u>Armeria maritima</u>	Norway	Trace
T-6666	<u>Armeria maritima</u>	Greenland	Trace
420339	<u>Armeria maritima</u>	Belgium	Trace
420340	<u>Armeria maritima</u>	Belgium	4
T-7124	<u>Armeria maritima</u> ssp. <u>sibirica</u>	Greenland	Trace
T-6672	<u>Artemisia vulgaris</u>	Denmark	28
T-13191	<u>Aster rotundifolius</u>	England	Trace
T-7137	<u>Campanula alliarifolia</u>	Belgium	3
T-6709	<u>Campanula</u> sp.		4
T-7143	<u>Cheiranthus allionii</u>	Norway	2
T-6626	<u>Chrysanthemum leucanthemum</u>	Denmark	5
T-6727	<u>Chrysanthemum leucanthemum</u>	Denmark	2
T-6728	<u>Chrysanthemum leucanthemum</u>	Denmark	8
T-10704	<u>Coreopsis lanceolata</u>	France	10
T-6755	<u>Corydalis sempervirens</u>	Denmark	4
T-6788	<u>Digitalis purpurea</u>	Denmark	65

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-6789	<u>Digitalis purpurea</u>	Denmark	50
T-7164	<u>Erigeron compositus</u>	Norway	Trace
380883	<u>Juncus</u> sp.	Ireland	3
T-6979	<u>Malva moshata</u>	Denmark	64
T-7028	<u>Monarda fistulosa</u>	Norway	35
T-7030	<u>Oenothera biennis</u>	Denmark	25
T-10906	<u>Oenothera biennis</u>	USSR	27
T-7066	<u>Ranunculus acris</u>	Norway	5
T-7076	<u>Ranunculus acris</u>	Belgium	2
T-10876	<u>Ranunculus acris</u> ssp. <u>friesianus</u>	Denmark	Trace
T-7069	<u>Ranunculus repens</u>	Norway	Trace
T-7070	<u>Ranunculus scleratus</u>	Norway	Trace
420257	<u>Reseda lutea</u>	Iran	6
T-10737	<u>Rudbeckia hirta</u>	Canada	170
T-10738	<u>Rudbeckia hirta</u>	Maryland	244
T-11180	<u>Rudbeckia hirta</u>	Canada	80
T-7089	<u>Saponaria officinalis</u>	Denmark	104
T-10743	<u>Tagetes erecta</u>	Denmark	6
T-10744	<u>Tagetes erecta</u>	USSR	21
T-10745	<u>Tagetes patula</u>	Denmark	19
T-10747	<u>Tagetes patula</u>	USSR	2
T-10753	<u>Tagetes patula</u>	USSR	9
T-10756	<u>Tagetes patula</u>	USSR	10
T-20712	<u>Tagetes patula</u>	USSR	3

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>	<u>Grams</u>
T-7098	<u>Tanacetum</u> <u>vulgare</u>	Norway	78
T-7099	<u>Tanacetum</u> <u>vulgare</u>	Norway	8

Distribution of Plant Materials

The primary function of the center is to request, assemble, and as needed, increase seed and vegetative material from foreign sources to meet requests of field plant materials centers according to priorities established in the long-range program of each PMC.

Most requests are filled from NPMC seed inventory from seed that has been reproduced here. In 1980, 2575 packets of seed were sent to field PMC's and other SCS Units.

Packet Seed Shipments to Field PMC's and Other SCS Units

<u>Species</u>	<u>No. of Packets</u>	<u>Species</u>	<u>No. of Packets</u>
<u>Aberdeen, Idaho, PMC</u>			
<u>Acer ginnala</u>	9	<u>Artemisia campestris</u> <u>ssp. borealis</u>	1
<u>Acer glabrum</u> var. <u>douglasii</u>	2	<u>Artemisia campestris</u> <u>ssp. campestris</u>	1
<u>Acer tataricum</u>	10	<u>Artemisia campestris</u> <u>ssp. glutinosa</u>	2
<u>Amelanchier alnifolia</u>	4	<u>Artemisia campestris</u> <u>ssp. lloydii</u>	1
<u>Amelanchier asiatica</u>	1	<u>Artemisia cana</u>	1
<u>Amelanchier canadensis</u>	3	<u>Artemisia ludoviciana</u>	1
<u>Amelanchier oblongifolia</u>	1	<u>Artemisia ludoviciana</u> <u>ssp. candicans</u>	1
<u>Amelanchier ovalis</u>	3	<u>Aster alpinus</u>	10
<u>Amelanchier spicata</u>	4	<u>Aster alpinus</u> var. <u>leucaster</u>	1
<u>Amelanchier stolonifera</u>	1	<u>Aster amellus</u>	4
<u>Amorpha canescens</u>	1	<u>Aster azureus</u>	1
<u>Amorpha fruticosa</u>	12	<u>Aster brachyactis</u>	1
<u>Armeniaca vulgaris</u>	1	<u>Aster chilensis</u>	2
<u>Artemisia abrotanum</u>	1		
<u>Artemisia borealis</u>	1		
<u>Artemisia campestris</u>	16		

Aberdeen, Idaho, PMC (contd.)

<u>Aster conspicuus</u>	1	<u>Aster tripolium</u>	4
<u>Aster cordifolius</u>	2	<u>Aster tripolium</u> var. <u>longicaulis</u>	1
<u>Aster divaricatus</u>	1	<u>Aster tripolium</u> ssp. <u>tripolium</u>	1
<u>Aster dracunculoides</u>	1	<u>Aster umbellatus</u>	1
<u>Aster dumosus</u>	1	<u>Astragalus americanus</u>	1
<u>Aster ericoides</u>	1	<u>Astragalus cicer</u>	1
<u>Aster flaccidus</u>	1	<u>Astragalus danicus</u>	3
<u>Aster foliaceus</u> var. <u>apricus</u>	1	<u>Astragalus frigidus</u>	1
<u>Aster laevis</u> var. <u>geyeri</u>	1	<u>Astragalus glycyphyllos</u>	6
<u>Aster lateriflorus</u>	1	<u>Astragalus norvegicus</u>	1
<u>Aster linosyris</u>	7	<u>Astragalus</u> sp.	1
<u>Aster novi-belgii</u>	2	<u>Berberis aquifolium</u>	1
<u>Aster pansus</u>	1	<u>Boltonia lautureana</u>	1
<u>Aster pappei</u>	1	<u>Bromus asper</u>	1
<u>Aster punctatus</u>	1	<u>Bromus erectus</u>	20
<u>Aster pyrenacus</u>	2	<u>Bromus erectus</u> var. <u>hackelli</u>	1
<u>Aster salicifolius</u>	2	<u>Bromus inermis</u>	2
<u>Aster sedofolium</u>	2	<u>Bromus ramosus</u>	9
<u>Aster sibricus</u>	2	<u>Bromus ramosus</u> ssp. <u>benekeni</u>	1
<u>Aster sibricus</u> var. <u>sibricus</u>	1	<u>Bromus ramosus</u> ssp. <u>ramosus</u>	2
<u>Aster simplex</u>	1	<u>Bromus tomentellus</u>	2
<u>Aster squamatus</u>	2	<u>Bromus valdiviensis</u>	1
<u>Aster subintegerrimus</u>	7	<u>Calamagrostis arundinacea</u>	8
<u>Aster subcoerulea</u>	1		
<u>Aster thomsonii</u> var. <u>nanus</u>	1		

Aberdeen, Idaho, PMC (contd.)

<u>Calamagrostis canescens</u>	1	<u>Coronilla scorpiodes</u>	4
<u>Calamagrostis epigeios</u>	15	<u>Coronilla valentina</u> ssp. <u>glauca</u>	1
<u>Caragana arborescens</u>	19	<u>Coronilla varia</u>	1
<u>Caragana arborescens</u> var. <u>pendula</u>	1	<u>Cotoneaster adpressa</u>	2
<u>Caragana arborescens</u> var. <u>sophoraefolia</u>	1	<u>Cotoneaster adpressa</u> var. <u>praecox</u>	1
<u>Caragana boisii</u>	1	<u>Cotoneaster apiculata</u>	1
<u>Caragana frutex</u>	2	<u>Crataegus chlorosarca</u>	5
<u>Caragana grandiflora</u>	1	<u>Crataegus chrysocarpa</u>	1
<u>Caragana microphylla</u>	1	<u>Crataegus chrysocarpa</u> var. <u>phoenicea</u>	1
<u>Ceanothus arboreus</u>	1	<u>Crataegus douglasii</u>	7
<u>Chrysopsis villosa</u>	2	<u>Crataegus douglasii</u> var. <u>suksdorfii</u>	1
<u>Cornus alba</u>	3	<u>Crataegus maximowiczii</u>	4
<u>Cornus alba</u> var. <u>sibirica</u>	1	<u>Crataegus punctata</u>	2
<u>Cornus alternifolia</u>	5	<u>Crataegus punctata</u> var. <u>aurea</u>	1
<u>Cornus amomum</u>	2	<u>Crataegus roundifolia</u>	1
<u>Cornus obliqua</u>	2	<u>Crataegus sanguinea</u>	2
<u>Cornus sanguinea</u>	20	<u>Daphne mezereum</u>	11
<u>Cornus sanguinea</u> ssp. <u>australis</u>	1	<u>Deschampsia cespitosa</u>	15
<u>Cornus sericea</u>	2	<u>Deutzia gracilis</u>	1
<u>Coronilla enerus</u>	3	<u>Elymus angustus</u>	1
<u>Coronilla enerus</u> ssp. <u>emeroides</u>	1	<u>Elymus sibiricus</u>	6
<u>Coronilla glauca</u>	1	<u>Enkianthus campanulatus</u>	7
<u>Coronilla minima</u>	1	<u>Euonymus alata</u>	5
<u>Coronilla montana</u>	1		

Aberdeen, Idaho, PMC (contd.)

<u>Euonymus alata</u> var. <u>ciliatodentatus</u>	1	<u>Lathyrus cicera</u>	1
<u>Frangula alnus</u>	21	<u>Lathyrus sylvestris</u>	28
<u>Gaillardia aristata</u>	1	<u>Lathyrus sylvestris</u> var. <u>angustifolius</u>	1
<u>Hedysarum alpinum</u>	2	<u>Lathyrus sylvestris</u> var. <u>platyphyllus</u>	1
<u>Hedysarum alpinum</u> ssp. <u>americanum</u>	1	<u>Ligustrina amurensis</u>	1
<u>Hedysarum articum</u>	2	<u>Ligustrum ibota</u>	1
<u>Hedysarum candidum</u>	1	<u>Lonicera caerulea</u>	4
<u>Hedysarum coronarium</u>	5	<u>Lonicera caerulea</u> var. <u>altaica</u>	2
<u>Hedysarum hedysaroides</u>	2	<u>Lonicera caerulea</u> var. <u>dependens</u>	1
<u>Hedysarum multijugum</u>	2	<u>Lonicera caerulea</u> var. <u>edulis</u>	2
<u>Hedysarum tauricum</u>	1	<u>Lonicera caerulea</u> var. <u>emphylocalyx</u>	1
<u>Heteropappus altaicus</u>	2	<u>Lonicera chrysantha</u>	2
<u>Hippophae rhamnoides</u>	13	<u>Lonicera fragrantissima</u>	1
<u>Holodiscus discolor</u>	3	<u>Lonicera gibbiflora</u>	1
<u>Holodiscus discolor</u> var. <u>ariaefolius</u>	2	<u>Lonicera involucrata</u>	4
<u>Holodiscus discolor</u> var. <u>discolor</u>	2	<u>Lonicera korolkowii</u>	2
<u>Holodiscus dumosus</u>	1	<u>Lonicera maackii</u>	8
<u>Iris missouriensis</u>	4	<u>Lonicera standishii</u>	2
<u>Iris setosa</u>	10	<u>Lonicera tatarica</u>	18
<u>Iris setosa</u> var. <u>canadensis</u>	1	<u>Lonicera tatarica</u> var. <u>latifolia</u>	1
<u>Juniperus communis</u>	12	<u>Lonicera tatarica</u> f. <u>lutea</u>	1
<u>Juniperus communis</u> ssp. <u>nana</u>	1	<u>Lonicera xylosteoides</u>	1
<u>Juniperus occidentalis</u>	1		

Aberdeen, Idaho, PMC (contd.)

<u>Lupinus luteus</u>	4	<u>Mimulus luteus</u> var. <u>cupreus</u>	1
<u>Lupinus luteus</u> var. <u>leucospermus</u>	5	<u>Padus virginiana</u>	1
<u>Lupinus luteus</u> var. <u>maculatus</u>	3	<u>Penstemon acuminatus</u>	1
<u>Lupinus</u> sp.	1	<u>Penstemon affinis</u>	1
<u>Mahonia aquifolium</u>	3	<u>Penstemon arizonicus</u>	1
<u>Mahonia repens</u>	2	<u>Penstemon attenuatus</u>	1
<u>Malus baccata</u>	6	<u>Penstemon barbatus</u>	3
<u>Malus baccata</u> var. <u>mandshurica</u>	1	<u>Penstemon calycosus</u>	1
<u>Malus baccata</u> var. <u>sibirica</u>	1	<u>Penstemon campanulatus</u>	2
<u>Malus fusca</u>	1	<u>Penstemon confertus</u>	1
<u>Malus hupehensis</u>	1	<u>Penstemon cyananthus</u>	1
<u>Malus micromalus</u>	1	<u>Penstemon digitalis</u>	1
<u>Malus praecox</u>	1	<u>Penstemon eatonii</u>	1
<u>Malus pumila</u> var. <u>niedzwetzkyana</u>	1	<u>Penstemon glaber</u>	2
<u>Malus pupurea</u>	2	<u>Penstemon glaucus</u>	1
<u>Malus scheideckeri</u>	1	<u>Penstemon gormanii</u>	1
<u>Malus sieboldii</u>	1	<u>Penstemon gracilis</u>	2
<u>Malus sylvestris</u>	2	<u>Penstemon grandiflorus</u>	1
<u>Malus transitoria</u>	1	<u>Penstemon hirsutus</u>	1
<u>Mimulus guetatus</u>	2	<u>Penstemon laevigatus</u>	2
<u>Mimulus guttatum</u>	3	<u>Penstemon menziesii</u>	1
<u>Mimulus lewsii</u>	4	<u>Penstemon murrayanus</u>	1
<u>Mimulus luteus</u>	6	<u>Penstemon newberryi</u>	1
		<u>Penstemon ovatus</u>	3
		<u>Penstemon procerus</u>	1

Aberdeen, Idaho, PMC (contd.)

<u>Penstemon procerus</u>		<u>Prunus avium</u>	3
var. <u>procerus</u>	1	<u>Prunus dulcis</u>	1
<u>Penstemon scouleri</u>	2	<u>Prunus fruticosa</u>	1
<u>Penstemon scouleri</u>		<u>Prunus pumila</u>	1
var. <u>alba</u>	1	<u>Prunus pumila</u>	
<u>Penstemon watsonii</u>	1	var. <u>depressa</u>	1
<u>Penstemon whippleanus</u>	1	<u>Prunus serotina</u>	2
<u>Philadelphus caucasicus</u>	1	<u>Prunus tenella</u>	2
<u>Philadelphus coronarius</u>	4	<u>Prunus virginiana</u>	1
<u>Philadelphus coronarius</u>		<u>Prunus virginiana</u>	
f. <u>aurea</u>	1	ssp. <u>demissa</u>	1
<u>Philadelphus lewisii</u>	2	<u>Prunus virginiana</u>	
<u>Philadelphus schrenkii</u>	1	ssp. <u>melanocarpa</u>	1
<u>Philadelphus tennifolius</u>	2	<u>Psoralea bituminosa</u>	1
<u>Photina villosa</u>	4	<u>Puccinellia distans</u>	6
<u>Photina villosa</u> var.		<u>Rhamnus californica</u>	1
<u>laevis</u>	1	<u>Rhamnus catharticus</u>	8
<u>Physocarpus amurensis</u>	3	<u>Rhamnus dahuricus</u>	3
<u>Physocarpus capitatus</u>	3	<u>Rhamnus davuricus</u>	1
<u>Physocarpus intermedius</u>	2	<u>Rhamnus davuricus</u>	
<u>Physocarpus malvaceus</u>	1	var. <u>nipponicus</u>	1
<u>Physocarpus opulifolius</u>	7	<u>Rhamnus japonica</u>	1
<u>Physocarpus opulifolius</u>		<u>Rhamnus saxatilis</u>	2
f. <u>luteus</u>	1	<u>Rhododendron dauricum</u>	
<u>Poa palustris</u>	16	var. <u>sempervirens</u>	1
<u>Pourthiaea villosa</u>		<u>Rhododendron</u>	
var. <u>laevis</u>	1	<u>schlippenbachii</u>	3
<u>Prunus armeniaca</u>	1	<u>Rhododendron vaseyi</u>	3

Aberdeen, Idaho, PMC (contd.)

<u>Rhus copallina</u>	2	<u>Sedum acre</u>	12
<u>Rhus glabra</u>	1	<u>Sedum acre</u> ssp. <u>sexangularc</u>	1
<u>Rhus typhina</u>	7	<u>Sedum lanceolatum</u> var. <u>lanceolatum</u>	1
<u>Ribes aureum</u>	3	<u>Sedum stenopetalum</u>	2
<u>Ribes ordoratum</u>	1	<u>Shepherdia canadensis</u>	2
<u>Ribes petraem</u>	3	<u>Sitanion jubatum</u>	1
<u>Rosa canina</u>	9	<u>Sorbaria sorbifolia</u>	6
<u>Rosa rugosa</u>	10	<u>Sorbaria sorbifolia</u> var. <u>stellipila</u>	1
<u>Rosa rugosa</u> var. <u>pumila</u>	1	<u>Spiraea alba</u>	1
<u>Rosa villosa</u>	5	<u>Spiraea betulifolia</u>	3
<u>Rosa woodsii</u>	1	<u>Spiraea chamaedryfolia</u>	3
<u>Rubus fruticosus</u>	1	<u>Spiraea chamaedryfolia</u> var. <u>chamaedryfolia</u>	1
<u>Rubus laciniatus</u>	5	<u>Spiraea densiflora</u>	1
<u>Rubus vulgaris</u>	1	<u>Spiraea densiflora</u> ssp. <u>densiflora</u>	1
<u>Sambucus canadensis</u>	7	<u>Spiraea japonica</u>	5
<u>Sambucus glauca</u>	5	<u>Spiraea japonica</u> var. <u>alpina</u>	2
<u>Sambucus nigra</u>	26	<u>Spiraea japonica</u> var. <u>fortunei</u>	1
<u>Sambucus nigra</u> f. <u>aurea</u>	1	<u>Spiraea nipponica</u>	3
<u>Sambucus nigra</u> f. <u>lacinata</u>	4	<u>Spiraea trichocarpa</u>	1
<u>Sambucus pubens</u>	4	<u>Spiraea wilsonii</u>	1
<u>Sambucus racemosa</u>	19	<u>Symphoricarpos chenaulti</u>	3
<u>Sambucus racemosa</u> var. <u>arborescens</u>	1	<u>Symphoricarpos occidentalis</u>	3
<u>Sambucus racemosa</u> var. <u>lacinata</u>	2		
<u>Sambucus racemosa</u> var. <u>pubens</u>	1		

Aberdeen, Idaho, PMC (contd.)Symphoricarpos orbiculatus 8Syringa amurensis var. amurensis 1Syringa sweginowii 2Syringa villosa 2Tilia cordata 7Viburnum carlesii 3Viburnum cassinoides 1Viburnum dentatum 2Viburnum edule 2Viburnum lantana 20Viburnum lantana f. aureum 1Viburnum lentago 8Viburnum opulus 30Viburnum prunifolium 2Viburnum pubescens 1Viburnum rhytidophyllum 2Viburnum sargentii 3Viburnum trilobum 3Vicia pisiformis 1Vicia sepium 11Vicia sepium var. montana 1Americus, Georgia, PMCChasmanthium latifolium 6Leersia oryzoides 2Big Flats, New York PMCAgropyron cristatum 1Agrostis gigantea 15Agrostis stolonifera 12Agrostis stolonifera
ssp. maritima 1Agrostis tenuis 1Agrostis vulgaris 2Alnus rugosa 1Armeria alliacea 1Armeria allioides 1Armeria alpina 6Armeria arctica 1Armeria arenaria 2Armeria caespitosa 1Armeria cantabrica 1Armeria elongata 2Armeria girardii 1Armeria halleri 4Armeria juncea 1Armeria juniperifolia 2Armeria leucocephala 2Armeria maritima 2Armeria maritima ssp.
alpina 1Armeria maritima ssp.
elongata 2

Big Flats, New York, PMC (contd.)

<u>Armeria maritima</u>		<u>Festuca ovina</u>	1
<u>ssp. sibirica</u>	1	<u>Holcus lanatus</u>	1
<u>Armeria montana</u>	1	<u>Lathyrus latifolius</u>	9
<u>Armeria plantaginea</u>	1	<u>Lathyrus latifolius</u>	
<u>Armeria pseudo-armeria</u>	2	<u>var. ensifolius</u>	1
<u>Armeria pungens</u>	1	<u>Lotus uliginosus</u>	7
<u>Armeria ruscinonensis</u>	1	<u>Malva moschata</u>	11
<u>Armeria scabra</u>	1	<u>Medicago lupulina</u>	1
<u>Armeria setacea</u>	1	<u>Oenothera biennis</u>	27
<u>Armeria sibirica</u>	2	<u>Oenothera biennis</u>	
<u>Armeria sp.</u>	1	<u>mut. sulfurea</u>	1
<u>Armeria splendens</u>	1	<u>Oenothera biennis</u>	
<u>Armeria undulata</u>	1	<u>var. grandiflora</u>	1
<u>Armeria welwitschii</u>	2	<u>Oenothera erythrosepala</u>	4
<u>Ascepias tuberosa</u>	1	<u>Oenothera lamarckiana</u>	2
<u>Baptisia australis</u>	15	<u>Oenothera lamarckiana</u>	
<u>Baptisia tinctoria</u>	3	<u>mut. blandina</u>	1
<u>Cornus alba</u>	9	<u>Oenothera lamarckiana</u>	
<u>Cornus alba f.</u>		<u>mut. gigas</u>	1
<u>argenteo-marginata</u>	1	<u>Oenothera lamarckiana</u>	
<u>Cornus alba var. sibirica</u>	1	<u>mut. rubinernis</u>	1
<u>Cornus sericea</u>	3	<u>Oenothera lamarckiana</u>	
<u>Cornus stolonifera</u>	5	<u>mut. suaveolens sulfurea</u>	1
<u>Cornus stolonifera</u>		<u>Oenothera muricata</u>	
<u>f. flaviramea</u>	1	<u>ssp. hungarica</u>	2
<u>Cornus suecica</u>	6	<u>Poa compressa</u>	3
<u>Festuca idahoensis</u>	1	<u>Robinia pseudoacacia</u>	1
		<u>Saponaria officinalis</u>	29
		<u>Saponaria officinalis</u>	
		<u>var. glaberrima</u>	1

Big Flats, New York, PMC (contd.)

<u>Trifolium arvanse</u>	12	<u>Aster foliaceus</u>	
		var. <u>foliaceus</u>	1
<u>Trifolium medium</u>	4		
<u>Trifolium medium</u>		<u>Aster foliaceus</u>	
<u>sarosiense</u>	1	var. <u>parryi</u>	1
		<u>Aster fruticosus</u>	1
<u>Bridger, Montana, PMC</u>		<u>Aster glehnii</u>	1
<u>Amorpha canescens</u>	1	<u>Aster herveyi</u>	2
<u>Antennaria lanata</u>	1	<u>Aster himalaicus</u>	3
<u>Artemisia tripartita</u>	1	<u>Aster ibericus</u>	1
<u>Artemisia vulgaris</u>	15	<u>Aster lanceolatus</u>	2
<u>Aster acris</u>	3	<u>Aster linosyris</u>	8
<u>Aster alpinus</u>	15	<u>Aster modestus</u>	1
<u>Aster alpinus roseus</u>	1	<u>Aster mongolicus</u>	3
<u>Aster alpinus</u> var. <u>waljii</u>	1	<u>Aster novi-belgii</u>	2
<u>Aster altaicus</u>	1	<u>Aster oreophilus</u>	1
<u>Aster amellus</u>	4	<u>Aster polycephalus</u>	1
<u>Aster bietii</u>	1	<u>Aster purdomii</u>	1
<u>Aster campestris</u>		<u>Aster pyrenaicus</u>	2
var. <u>campestris</u>	1	<u>Aster rotundifolius</u>	1
<u>Aster ciliolatus</u>	1	<u>Aster salignus</u>	4
<u>Aster conspicuus</u>	1	<u>Aster sedifolius</u>	1
<u>Aster divaricatus</u>	1	<u>Aster sibiricus</u>	1
<u>Aster dumosus</u>	1	<u>Aster sibiricus</u>	
<u>Aster farrieri</u>	2	var. <u>sibiricus</u>	1
<u>Aster foliaceus</u>		<u>Aster squamatus</u>	1
var. <u>apicus</u>	1	<u>Aster subcaeruleus</u>	2
<u>Aster foliaceus</u>		<u>Aster tibeticus</u>	3
var. <u>cusickii</u>	1		

Bridger, Montana, PMC (contd.)

<u>Aster tibeticus albus</u>	1	<u>Penstemon diffusus</u>	3
<u>Aster tongolensis</u>	4	<u>Penstemon digitalis</u>	1
<u>Aster tradescantii</u>	2	<u>Penstemon gentianoides</u>	2
<u>Aster tripolium</u>	4	<u>Penstemon gloxinoides</u>	1
<u>Aster tripolium</u> var. <u>discoideus</u>	1	<u>Penstemon gracilis</u>	1
<u>Aster tripolium</u> var. <u>longicaulis</u>	1	<u>Penstemon hartwegii</u>	1
<u>Aster versicolor</u>	1	<u>Penstemon hirsutus</u>	2
<u>Aster yuannaensis</u>	1	<u>Penstemon hybridus</u>	1
<u>Bouteloua hirsuta</u>	1	<u>Penstemon laevigatus</u>	5
<u>Chrysothamnus nauseous</u>	2	<u>Penstemon linariodes</u>	1
<u>Dlymus junceus</u>	1	<u>Penstemon ovatus</u>	2
<u>Erigeron aliceae</u>	1	<u>Penstemon procerus</u>	1
<u>Erigeron compositus</u> var. <u>discooidus</u>	1	<u>Penstemon rattanii</u>	1
<u>Erigeron speciosus</u> var. <u>macranthus</u>	1	<u>Penstemon secundiflorus</u>	1
<u>Erigeron umbellatum</u>	1	<u>Penstemon serrulatus</u>	3
<u>Hedysarum boreale</u> ssp. <u>boreale</u>	1	<u>Penstemon venustus</u>	1
<u>Penstemon acuminatus</u>	1	<u>Penstemon whippleanus</u>	1
<u>Penstemon azureus</u>	2	<u>Penstemon sp.</u>	1
<u>Penstemon barbatus</u>	2	<u>Poa compressa</u>	7
<u>Penstemon barbatus</u> var. <u>coccineus</u>	1	<u>Psathyrostachys juncea</u>	1
<u>Penstemon campanulatus</u>	3	<u>Sitanion hystrix</u>	1
<u>Penstemon confertus</u>	1	<u>Trifolium lupinaster</u>	1
		<u>Vicia cassubica</u>	1
		<u>Vicia cracca</u>	1
		<u>Vicia orobus</u>	1

Bridger, Montana, PMC (contd.)

<u>Vicia pisiiformis</u>	2	<u>Cassia unifolia</u>	1
<u>Vicia sepium</u>	1	<u>Cassia sp.</u>	2
<u>Brooksville, Florida, PMC</u>		<u>Centrosema arenarium</u>	1
<u>Aeschynomene americana</u>	3	<u>Centrosema plumieri</u>	2
<u>Aeschynomene falcata</u>	1	<u>Centrosema pubescens</u>	14
<u>Aeschynomene indica</u>	1	<u>Centrosema virginianum</u>	12
<u>Aeschynomene paniculata</u>	1	<u>Centrosema sp.</u>	2
<u>Aeschynomene sp.</u>	3	<u>Clitoria laurifolia</u>	2
<u>Cajanus cajan</u>	1	<u>Clitoria rubiginosa</u>	1
<u>Calopogonium mucunoides</u>	7	<u>Clitoria ternatea</u>	14
<u>Calopogonium sp.</u>	1	<u>Crotalaria alata</u>	1
<u>Canavalia ensiformis</u>	2	<u>Crotalaria anagyroides</u>	5
<u>Canavalia gladiata</u>	1	<u>Crotalaria argyroloboides</u>	1
<u>Cassia abbreviata</u>	1	<u>Crotalaria astragalina</u>	3
<u>Cassia artemasioides</u>	1	<u>Crotalaria atrorubens</u>	1
<u>Cassia bonaviensis</u>	1	<u>Crotalaria brachystachya</u>	2
<u>Cassia flexuosa</u>	1	<u>Crotalaria brownei</u>	1
<u>Cassia hirsuta</u>	1	<u>Crotalaria eriocarpa</u>	1
<u>Cassia floridunda</u>	1	<u>Crotalaria falcata</u>	1
<u>Cassia latistipula</u>	1	<u>Crotalaria grantiana</u>	2
<u>Cassia leshenaultiana</u>	1	<u>Crotalaria incana</u>	11
<u>Cassia mimosoides</u>	3	<u>Crotalaria juncea</u>	2
<u>Cassia patellaria</u>	1	<u>Crotalaria laburnifolia</u>	
<u>Cassia pleurocarpa</u>	1	ssp. <u>australis</u>	1
<u>Cassia rotundifolia</u>	1	<u>Crotalaria lanceolata</u>	6
		<u>Crotalaria leioloba</u>	1

Brooksville, Florida, PMC (contd.)

<u>Crotalaria medicaginea</u>	2	<u>Prunus cerasifera</u>	2
<u>Crotalaria micronata</u>	2	<u>Scirpus americanus</u>	1
<u>Crotalaria nitans</u>	1	<u>Spartina pectinata</u>	2
<u>Crotalaria ochroleuca</u>	2	<u>Thuja occidentalis</u>	9
<u>Crotalaria orixensis</u>	1	<u>Thuja occidentalis</u> f. <u>fastigiata</u>	1
<u>Crotalaria paulina</u>	1		
<u>Crotalaria pallida</u>	1	<u>Coffeetown, Mississippi, PMC</u>	
<u>Crotalaria pilosa</u>	1	<u>Calamagrostis</u> <u>pseudophragmites</u>	2
<u>Crotalaria quinquefolia</u>	1	<u>Medicago lupulina</u>	1
<u>Crotalaria retusa</u>	2		
<u>Crotalaria saltiana</u>	9	<u>Hoolehua, Hawaii, PMC</u>	
<u>Crotalaria sericea</u>	1	<u>Atriplex nummularia</u>	1
<u>Crotalaria spectabilis</u>	3	<u>Centrosema pubescens</u>	1
<u>Crotalaria sphaerocarpa</u>	1	<u>Desmodium cinerascens</u>	1
<u>Crotalaria stipularia</u>	4	<u>Desmodium intortum</u>	1
<u>Crotalaria trifolium</u>	1	<u>Dolichos lablab</u>	1
<u>Crotalaria zanaibarica</u>	2	<u>Glycine wightii</u>	1
<u>Crotalaria sp.</u>	2	<u>Macroptilium atropurpureum</u>	4

Cape May, New Jersey, PMC

<u>Calamagrostis arundinacea</u>	1
<u>Myrica cerifera</u>	2
<u>Myrica pennsylvanica</u>	2
<u>Phalaris aquatica</u>	9
<u>Pinus pinaster</u>	5
<u>Poa compressa</u>	1

<u>Medicago polymorpha</u>	2
<u>Sporobolus airoides</u>	1
<u>Sporobolus wrightii</u>	1

Lincoln, Nebraska, Range Conservationist

<u>Vicia angustifolia</u>	1
<u>Vicia dasycarpa</u>	1
<u>Vicia exigua</u>	1

Lincoln, Nebraska,
Range Conservationist (contd.)

<u>Vicia lathroides</u>	1	<u>Acacia nilotica</u>	1
<u>Vicia leavenworthii</u>	1	<u>Acacia retinoides</u>	1
<u>Vicia pannonica</u>	1	<u>Acacia saligna</u>	1
<u>Vicia sativa</u>	1	<u>Acacia smattii</u>	1
<u>Vicia tenuifolia</u>	1	<u>Acacia suaveolens</u>	1
<u>Lockeford, California, PMC</u>		<u>Acacia verticillata</u>	2
<u>Acacia angustissima</u>	1	<u>Agropyron elongatum</u>	1
<u>Acacia armata</u>	1	<u>Agropyron intermedium</u>	4
<u>Acacia berlandieri</u>	1	<u>Agropyron intermedium</u> var. <u>intermedium</u>	4
<u>Acacia constricta</u>	1	<u>Agropyron intermedium</u> var. <u>trichophorum</u>	1
<u>Acacia constricta</u> var. <u>paucispina</u>	1	<u>Agropyron pectiniforme</u>	3
<u>Acacia cyclops</u>	1	<u>Agropyron trichophorum</u>	3
<u>Acacia dealbata</u>	1	<u>Atriplex glauca</u>	1
<u>Acacia decurrens</u>	1	<u>Atriplex halimus</u>	2
<u>Acacia eburnea</u>	1	<u>Atriplex leucoclada</u>	1
<u>Acacia farnesiana</u>	2	<u>Atriplex tatarica</u>	1
<u>Acacia gerrardii</u>	1	<u>Brachiaria xantholeuca</u>	1
<u>Acacia horrida</u>	2	<u>Dactylis marina</u>	1
<u>Acacia juniperus</u>	1	<u>Elymus arenarius</u>	2
<u>Acacia karoo</u>	1	<u>Elymus juncens</u>	1
<u>Acacia linearis</u>	1	<u>Eucalyptus ficifolia</u>	1
<u>Acacia longifolia</u>	4	<u>Festuca arundinacea</u>	5
<u>Acacia melanoxylon</u>	2	<u>Juniperus ashei</u>	1
<u>Acacia neriifolia</u>	1	<u>Juniperus cedrus</u>	3

Lockeford, California, PMC (contd.)

<u>Juniperus chinensis</u>	5	<u>Pinus densiflora</u>	1
<u>Juniperus communis</u>	3	<u>Pinus echinata</u>	2
<u>Juniperus drupacea</u>	1	<u>Pinus griffithiana</u>	1
<u>Juniperus excelsa</u>	1	<u>Pinus halepensis</u>	1
<u>Juniperus oxycedrus</u>	1	<u>Pinus koraiensis</u>	1
<u>Juniperus oxycedrus</u> <u>ssp. macrocarpa</u>	1	<u>Pinus monticola</u>	2
<u>Juniperus phoenicea</u>	5	<u>Pinus mugo</u>	1
<u>Juniperus phoenicea</u> <u>var. lycia</u>	1	<u>Pinus nigra</u>	3
<u>Juniperus rigida</u>	1	<u>Pinus parviflora</u> <u>var. pentaphylla</u>	1
<u>Juniperus sabina</u>	1	<u>Pinus pinea</u>	5
<u>Juniperus squamata</u>	1	<u>Pinus ponderosa</u>	3
<u>Juniperus virginiana</u>	2	<u>Pinus pumila</u>	2
<u>Juniperus wallichiana</u>	1	<u>Pinus rigida</u>	2
<u>Kochia prostrata</u>	1	<u>Pinus stankewiczii</u>	1
<u>Lolium perenne</u>	11	<u>Pinus sylvestris</u>	5
<u>Lolium remotum</u>	1	<u>Pinus taeda</u>	2
<u>Lolium temulentum</u>	2	<u>Pinus wallichiana</u>	1
<u>Paspalum dilatatum</u>	1	<u>Manhattan, Kansas, PMC</u>	
<u>Pinus banksiana</u>	1	<u>Amygdalus nana</u>	2
<u>Pinus brutia</u>	1	<u>Biota orientalis</u>	3
<u>Pinus bungeana</u>	1	<u>Ceanothus americanus</u>	4
<u>Pinus canariensis</u>	2	<u>Ceanothus delilianus</u>	1
<u>Pinus cembra</u>	1	<u>Ceanothus ovatus</u>	1
<u>Pinus cambra</u> var. <u>sibirica</u>	1	<u>Ceanothus thyrsiflorus</u>	1

Manhattan, Kansas, PMC (contd.)

<u>Ceanothus velutinus</u>		<u>Cotoneaster dielsiana</u>	
var. <u>laevigatus</u>	1	var. <u>elegans</u>	2
<u>Celtis australis</u>	8	<u>Cotoneaster disticha</u>	3
<u>Celtis glabrata</u>	1	<u>Cotoneaster divaricata</u>	7
<u>Celtis laevigatus</u>	1	<u>Cotoneaster faveolata</u>	3
<u>Celtis occidentalis</u>	7	<u>Cotoneaster franchetii</u>	9
<u>Celtis sinensis</u>	1	<u>Cotoneaster frigida</u>	3
<u>Celtis tournefortii</u>	1	<u>Cotoneaster harroviana</u>	2
<u>Cotoneaster acuminata</u>	2	<u>Cotoneaster harysmithii</u>	2
<u>Cotoneaster acutifolia</u>	3	<u>Cotoneaster hebephylla</u>	
<u>Cotoneaster affinis</u>		var. <u>fulvida</u>	1
var. <u>bacillaris</u>	2	<u>Cotoneaster henryana</u>	2
<u>Cotoneaster allochrus</u>	1	<u>Cotoneaster horizontalis</u>	15
<u>Cotoneaster amoena</u>	1	<u>Cotoneaster huphensis</u>	2
<u>Cotoneaster apiculata</u>	2	<u>Cotoneaster hybrida</u>	1
<u>Cotoneaster bullata</u>	15	<u>Cotoneaster hybrida</u>	
<u>Cotoneaster bullata</u>		var. <u>pendula</u>	1
var. <u>floribunda</u>	2	<u>Cotoneaster ignava</u>	1
<u>Cotoneaster buxifolia</u>	1	<u>Cotoneaster insignis</u>	1
<u>Cotoneaster buxifolia</u>		<u>Cotoneaster intergerrima</u>	15
var. <u>vellaea</u>	1	<u>Cotoneaster karatavica</u>	1
<u>Cotoneaster congesta</u>	2	<u>Cotoneaster lactea</u>	7
<u>Cotoneaster conspicua</u>	3	<u>Cotoneaster lindleyi</u>	2
<u>Cotoneaster crispa</u>	1	<u>Cotoneaster lucida</u>	10
<u>Cotoneaster dammeri</u>	5	<u>Cotoneaster melanocarpa</u>	3
<u>Cotoneaster dammeri</u>		<u>Cotoneaster microphylla</u>	5
var. <u>radicans</u>	4	<u>Cotoneaster microphylla</u>	
<u>Cotoneaster dielsiana</u>	7	var. <u>cochleata</u>	2

Manhattan, Kansas, PMC (contd.)

<u>Cotoneaster microphylla</u>		<u>Cotoneaster sterniana</u>	1
var. <u>melanotricha</u>	1	<u>Cotoneaster tauricus</u>	1
<u>Cotoneaster microphylla</u>		<u>Cotoneaster tomentosa</u>	2
var. <u>thymifolia</u>	1	<u>Cotoneaster turbinata</u>	1
<u>Cotoneaster moupiensis</u>	8	<u>Cotoneaster uniflora</u>	1
<u>Cotoneaster multiflora</u>	8	<u>Cotoneaster wardii</u>	6
<u>Cotoneaster nanshan</u>	2	<u>Cotoneaster watereri</u>	3
<u>Cotoneaster nebrodensis</u>	4	<u>Cotoneaster zabelii</u>	3
<u>Cotoneaster nigra</u>	5	<u>Cotoneaster zeravschanicus</u>	1
<u>Cotoneaster nigra</u>		<u>Cotoneaster sp.</u>	2
var. <u>laxiflora</u>	1	<u>Crataegus maximowiczii</u>	1
<u>Cotoneaster nitens</u>	4	<u>Crataegus rivularis</u>	1
<u>Cotoneaster obscura</u>	1	<u>Crataegus sanguinea</u>	1
<u>Cotoneaster pannosa</u>	2	<u>Elaeagnus angustifolia</u>	10
<u>Cotoneaster praecox</u>	7	<u>Elaeagnus argentea</u>	1
<u>Cotoneaster pseudoambigua</u>	1	<u>Elaeagnus commutata</u>	6
<u>Cotoneaster racemiflora</u>	1	<u>Penstemon arizonicus</u>	1
<u>Cotoneaster racemiflora</u>		<u>Penstemon attenuatus</u>	1
var. <u>soongarica</u>	1	<u>Penstemon barettiae</u>	1
<u>Cotoneaster rosea</u>	5	<u>Penstemon confertus</u>	1
<u>Cotoneaster rotundifolia</u>	1	<u>Penstemon digitalis</u>	1
<u>Cotoneaster rubens</u>	1	<u>Penstemon grandiflorus</u>	2
<u>Cotoneaster salicifolia</u>	8	<u>Penstemon laevigatus</u>	1
<u>Cotoneaster salicifolia</u>		<u>Penstemon serrulatus</u>	1
var. <u>floccosa</u>	1	<u>Penstemon watsonii</u>	1
<u>Cotoneaster saxatilis</u>	1		
<u>Cotoneaster simonsii</u>	5		
<u>Cotoneaster splendens</u>	1		

Manhattan, Kansas, PMC (contd.)

<u>Prunus mackii</u>	1	<u>Rosa davurica</u>	1
<u>Prunus pensylvanica</u>	3	<u>Rosa dupontii</u>	1
<u>Prunus serotina</u>	5	<u>Rosa gallica</u>	3
<u>Prunus tomentosa</u>	1	<u>Rosa gallica</u> var. <u>complicata</u>	1
<u>Prunus virginiana</u>	4	<u>Rosa gallica</u> var. <u>versicolor</u>	1
<u>Prunus virginiana</u> var. <u>melanocarpa</u>	1	<u>Rosa glauca</u>	3
<u>Rhus aromatica</u>	3	<u>Rosa glutinosa</u>	1
<u>Rhus trilobata</u>	1	<u>Rosa gymnocarpa</u>	1
<u>Rosa acicularis</u>	8	<u>Rosa hugonis</u>	1
<u>Rosa acicularis</u> var. <u>nipponensis</u>	2	<u>Rosa judyillii</u>	2
<u>Rosa agrestis</u>	2	<u>Rosa laxa</u>	1
<u>Rosa alba</u>	1	<u>Rosa majalis</u>	3
<u>Rosa beggeriana</u>	1	<u>Rosa micrantha</u>	1
<u>Rosa bella</u>	1	<u>Rosa montana</u>	1
<u>Rosa blanda</u>	3	<u>Rosa moyesii</u>	5
<u>Rosa brumonii</u>	1	<u>Rosa nitida</u>	1
<u>Rosa canina</u>	14	<u>Rosa nutkana</u>	2
<u>Rosa carolina</u>	1	<u>Rosa omeinsis</u>	1
<u>Rosa centifolia</u>	2	<u>Rosa omissa</u>	2
<u>Rosa chinensis</u>	2	<u>Rosa palustris</u>	1
<u>Rosa coriifolia</u>	1	<u>Rosa pendula</u>	7
<u>Rosa corymbifera</u>	1	<u>Rosa pimpinellifolia</u>	8
<u>Rosa damascens</u>	2	<u>Rosa pimpinellifolia</u> f. <u>spinosissima</u>	1
<u>Rosa davidii</u>	1		

Manhattan, Kansas, PMC (contd.)

<u>Rosa pisocarpa</u>	2	<u>Thuja orientalis</u>	10
<u>Rosa pouzinii</u>	1	Unknown	1
<u>Rosa pulverulenta</u>	1	<u>Palmer, Alasak, PMC</u>	
<u>Rosa roxburghii</u>	2	<u>Abies balsamea</u>	1
<u>Rosa rubiginosa</u>	3	<u>Agropyron inerme</u>	1
<u>Rosa rubrifolia</u>	4	<u>Agropyron intermedium</u>	3
<u>Rosa rugosa</u>	15	<u>Bromus sitchensis</u>	1
<u>Rosa rugosa</u> var. <u>albiflora</u>	1	<u>Coronilla varia</u>	2
<u>Rosa santi-andreae</u>	1	<u>Dactylis glomerata</u>	3
<u>Rosa sempervirens</u>	3	<u>Festuca arundinacea</u>	1
<u>Rosa serafinii</u>	2	<u>Lathyrus sylvestris</u>	1
<u>Rosa spinosissima</u>	3	<u>Portland, Oregon, PMS</u>	
<u>Rosa setipoda</u>	1	<u>Lespedeza bicolor</u>	1
<u>Rosa sweginzowii</u>	1	<u>Quicksand, Kentucky, PMC</u>	
<u>Rosa tomentosa</u>	1	<u>Agrostis gigantea</u>	1
<u>Rosa tuschetica</u>	1	<u>Rose Lake, Michigan, PMC</u>	
<u>Rosa villosa</u>	5	<u>Asclepias tuberosa</u>	1
<u>Rosa virginiana</u>	1	<u>Aster novae-angliae</u>	1
<u>Rosa waitziana</u>	1	<u>Chamaenerion angustifolium</u>	6
<u>Rosa watsoniana</u>	2	<u>Chrysanthemum leucanthemum</u>	19
<u>Rosa webbiana</u>	1	<u>Chrysanthemum leucanthemum</u> var. <u>grandiflorum</u>	1
<u>Rosa wichuriana</u>	1	<u>Chrysanthemum leucanthemum</u> var. <u>meridionale</u>	1
<u>Rosa willmottiae</u>	1		
<u>Rosa woodsii</u> ssp. <u>woodsii</u>	1		
<u>Rosa xanthina</u>	2		

Rose Lake, Michigan, PMC (contd.)

<u>Epilobium angustifolium</u>	8	<u>Acacia binervata</u>	1
<u>Epilobium angustifolium</u> <u>ssp. angustifolium</u>	1	<u>Acacia buxifolia</u>	1
<u>Erianthus ravennae</u>	1	<u>Acacia calamifolia</u>	1
<u>Hemerocallis flava</u>	2	<u>Acacia cardiophylla</u>	1
<u>Hemerocallis flava</u> <u>var. minor</u>	1	<u>Acacia cyclops</u>	1
<u>Hemerocallis</u> <u>lilioasphodelus</u>	2	<u>Acacia dealbata</u>	1
<u>Lythrum salicaria</u>	19	<u>Acacia dietrichiana</u>	1
<u>Potentilla recta</u>	1	<u>Acacia doratoxylon</u>	1
		<u>Acacia eburnea</u>	1
		<u>Acacia erioloba</u>	1
<u>Salina, Kansas, PMS</u>		<u>Acacia erubescens</u>	1
<u>Lespedeza stipulacea</u>	1	<u>Acacia farnesiana</u>	1
<u>Lespedeza striata</u>	1	<u>Acacia fimbriata</u>	1
<u>Trifolium agrarium</u>	1	<u>Acacia galpinii</u>	1
<u>Trifolium dubium</u>	1	<u>Acacia genistifolia</u>	1
<u>Trifolium fragiferum</u>	1	<u>Acacia gerrardii</u>	1
<u>Trifolium resupinatum</u>	1	<u>Acacia goetzei</u> ssp. <u>goetzei</u>	1
<u>Trifolium striatum</u>	1	<u>Acacia hebeclada</u>	1
<u>Tucson, Arizona, PMC</u>		<u>Acacia holosericea</u>	1
<u>Acacia abyssinica</u> <u>ssp. calophylla</u>	1	<u>Acacia homalophylla</u>	1
<u>Acacia alata</u>	1	<u>Acacia horrida</u>	2
<u>Acacia arenaria</u>	1	<u>Acacia implexa</u>	1
<u>Acacia baileyana</u>	1	<u>Acacia ixiophylla</u>	1
<u>Acacia beckleri</u>	1	<u>Acacia ligulata</u>	1

Tucson, Arizona, PMC (contd.)

<u>Acacia linearis</u>	1	<u>Acacia spectabilis</u>	1
<u>Acacia longifolia</u>	1	<u>Acacia stricta</u>	1
<u>Acacia melanoxylon</u>	1	<u>Acacia suaveolens</u>	1
<u>Acacia microbotrya</u>	1	<u>Acacia swazica</u>	1
<u>Acacia montana</u>	1	<u>Acacia terminalis</u>	1
<u>Acacia myrtifolia</u>	1	<u>Acacia tortilis</u>	1
<u>Acacia nilotica</u>	1	<u>Acacia uncinata</u>	1
<u>Acacia nilotica</u> <u>ssp. adonsonii</u>	1	<u>Acacia urophylla</u>	1
<u>Acacia nilotica</u> <u>ssp. kraussiana</u>	1	<u>Acacia viscidula</u>	1
<u>Acacia paradoxa</u>	1	<u>Acacia sp.</u>	2
<u>Acacia pentagona</u>	1	<u>Albizia julibrissin</u>	1
<u>Acacia polyacantha</u> <u>ssp. campylacantha</u>	1	<u>Albizia lophantha</u>	3
<u>Acacia prominens</u>	1	<u>Aristida diffusa</u>	1
<u>Acacia pycnantha</u>	1	<u>Aristida pennata</u>	1
<u>Acacia pyrifolia</u>	1	<u>Aristida plumosa</u>	2
<u>Acacia retinoides</u>	1	<u>Aristida pungens</u>	1
<u>Acacia robusta</u>	1	<u>Atriplex inflata</u>	2
<u>Acacia salicina</u>	1	<u>Atriplex lindleyi</u>	1
<u>Acacia saligna</u>	1	<u>Atriplex semibaccata</u>	2
<u>Acacia schweinfurthii</u>	1	<u>Bauhinia galpinii</u>	1
<u>Acacia senegal</u> var. <u>rostrata</u>	1	<u>Callistemon brachyandrus</u>	1
<u>Acacia seyal</u>	1	<u>Callistemon citrinus</u>	1
<u>Acacia sieberana</u> var. <u>woodii</u>	1	<u>Callistemon coccineus</u>	1
		<u>Callistemon linearis</u>	1
		<u>Callistemon pendulus</u>	1

Tucson, Arizona, PMC (contd.)

<u>Callistemon phoeniceus</u>	2	<u>Cassia obtusifolia</u>	1
<u>Callistemon pinifolius</u>	1	<u>Cassia occidentalis</u>	2
<u>Callistemon rigidus</u>	1	<u>Cassia odorata</u>	1
<u>Callistemon speciosus</u>	1	<u>Cassia petersiana</u>	1
<u>Calothamnus</u> <u>blepheranthus</u>	1	<u>Cassia pleurocarpa</u>	1
<u>Calothamnus quadrifidus</u>	1	<u>Cassia senna</u>	3
<u>Cassia abbreviata</u>	1	<u>Cassia sericea</u>	1
<u>Cassia alata</u>	1	<u>Cassia siamea</u>	1
<u>Cassia australis</u>	1	<u>Cassia singueana</u>	1
<u>Cassia bicapsularis</u>	1	<u>Cassia sophera</u>	1
<u>Cassia carnaul</u>	1	<u>Cassia trocha</u>	1
<u>Cassia desolata</u>	1	<u>Cassia uosa</u>	1
<u>Cassia didymobotrya</u>	2	<u>Cassia sp.</u>	1
<u>Cassia eremophila</u> var. <u>eremophila</u>	1	<u>Casuarina acutavalvis</u>	1
<u>Cassia eremophila</u> var. <u>platypoda</u>	1	<u>Casuarina campestris</u>	1
<u>Cassia eremophila</u> var. <u>zygophylla</u>	1	<u>Casuarina corniculata</u>	1
<u>Cassia floribunda</u>	1	<u>Casuarina cristata</u>	2
<u>Cassia mimosoides</u>	1	<u>Casuarina distyla</u>	1
<u>Cassia mimosoides</u> var. <u>nomame</u>	1	<u>Casuarina equisetifolia</u>	1
<u>Cassia multijuga</u>	1	<u>Casuarina humilis</u>	1
<u>Cassia nemophylla</u>	1	<u>Casuarina lehmanniana</u>	1
<u>Cassia nodosa</u>	1	<u>Casuarina littoralis</u>	1
<u>Cassia notabilis</u>	1	<u>Casuarina luehmannii</u>	1
		<u>Casuarina muellerana</u>	1
		<u>Casuarina nana</u>	1

Tucson, Arizona, PMC (contd.)

<u>Cercis</u> <u>siliquastrum</u>	7	<u>Isopogon</u> <u>buxifolius</u>	1
<u>Coix</u> <u>lacryma-jobi</u>	6	<u>Isopogon</u> <u>dubius</u>	1
<u>Crotalaria</u> <u>sp.</u>	1	<u>Kennedia</u> <u>prostrata</u>	1
<u>Dodonaea</u> <u>viscosa</u>	1	<u>Kunzea</u> <u>baxteri</u>	1
<u>Ephedra</u> <u>distachya</u>	1	<u>Leptospermum</u> <u>stellatum</u>	1
<u>Erythrina</u> <u>crista-galli</u>	1	<u>Leucaena</u> <u>latisiliqua</u>	5
<u>Eucalyptus</u> <u>camaldulensis</u>	1	<u>Leucaena</u> <u>leucocephala</u>	2
<u>Eucalyptus</u> <u>decipiens</u>	1	<u>Melaleuca</u> <u>diosmifolia</u>	1
<u>Eucalyptus</u> <u>erythrocorys</u>	1	<u>Melaleuca</u> <u>elliptica</u>	1
<u>Eucalyptus</u> <u>eudesmoides</u>	1	<u>Melaleuca</u> <u>huegelii</u>	1
<u>Eucalyptus</u> <u>ficifolia</u>	1	<u>Melaleuca</u> <u>hypericifolia</u>	2
<u>Eucalyptus</u> <u>gamophylla</u>	1	<u>Melaleuca</u> <u>leucadendron</u>	1
<u>Eucalyptus</u> <u>kingsmillii</u>	1	<u>Melaleuca</u> <u>teretifolia</u>	1
<u>Eucalyptus</u> <u>megacarpa</u>	1	<u>Reseda</u> <u>luteola</u>	3
<u>Eucalyptus</u> <u>zygophylla</u>	1	<u>Sativia</u> <u>verticillata</u>	1
<u>Fremontodendron</u> <u>californicum</u>	1		
<u>Gleditsia</u> <u>tricanthos</u>	1		
<u>Grevillea</u> <u>crithmifolia</u>	1		
<u>Grevillea</u> <u>leucopteris</u>	1		
<u>Grewia</u> <u>occidentalis</u>	1		
<u>Hyparrhenia</u> <u>hirta</u>	2		
<u>Hypericum</u> <u>ascyron</u>	3		
<u>Hypericum</u> <u>patulum</u>	2		
<u>Hypericum</u> <u>patulum</u> var. <u>henryi</u>	1		

Domestic Distribution - Non-SCS

<u>Name</u>	<u>PI or Other Number</u>	<u>Organization</u>	<u>Location</u>
<u>Dactylis glomerata</u>	'Latar'	SEA	Beltsville, MD
<u>Mimosa invisa</u>	PI-255073	SEA-Plant Germpl. Inst.	Beltsville, MD
<u>Vigna vexillata</u>	PI-193746	SEA-Plant Germpl. Inst.	Beltsville, MD
<u>Vigna vexillata</u>	PI-365095	SEA-Plant Germpl. Inst.	Beltsville, MD
<u>Vigna vexillata</u>	PI-365096	SEA-Plant Germpl. Inst.	Beltsville, MD
<u>Vigna vexillata</u>	PI-365097	SEA-Plant Germpl. Inst.	Beltsville, MD
<u>Alopecurus arundinaceus</u>	PI-229529	SEA-Regional PI Sta.	Pullman, WA
<u>Achillea</u> sp.	PI-383527	SEA-Regional PI Sta.	Pullman, WA
<u>Achillea</u> sp.	PI-383528	SEA-Regional PI Sta.	Pullman, WA
<u>Astragalus</u> sp.	PI-202149	SEA-Regional PI Sta.	Pullman, WA
<u>Juncus</u> sp.	PI-380883	SEA-Regional PI Sta.	Pullman, WA
<u>Lupinus angustifolius</u>	PI-283637	SEA-Regional PI Sta.	Pullman, WA
<u>Lupinus luteus</u>	PI-303052	SEA-Regional PI Sta.	Pullman, WA
<u>Lupinus luteus</u>	PI-316288	SEA-Regional PI Sta.	Pullman, WA
<u>Lupinus luteus</u>	PI-326278	SEA-Regional PI Sta.	Pullman, WA
<u>Lupinus luteus</u>	PI-338648	SEA-Regional PI Sta.	Pullman, WA
<u>Lupinus luteus</u>	PI-368920	SEA-Regional PI Sta.	Pullman, WA
<u>Reseda lutea</u>	PI-420257	SEA-Regional PI Sta.	Pullman, WA
<u>Rosa</u> sp.	PI-383745	SEA-Regional PI Sta.	Pullman, WA
<u>Euphorbia marginata</u>		Univ. of Maryland	College Park, MD
<u>Sporobolus cryptandrus</u>	T-7095	The Land Institute	Salina, KS
<u>Sporobolus cryptandrus</u>	T-7096	The Land Institute	Salina, KS
<u>Vicia benghalensis</u>	PI-308096	Carnegie Inst. of WA	Stanford, CA
<u>Vicia dasycarpa</u>	PI-117430	Carnegie Inst. of WA	Stanford, CA
<u>Vicia grandiflora</u>	T-2160	Carnegie Inst. of WA	Stanford, CA
<u>Vicia sativa</u>	PI-340168	Carnegie Inst. of WA	Stanford, CA
<u>Vicia tetrasperma</u>	PI-289520	Carnegie Inst. of WA	Stanford, CA

Foreign Shipments

One of the functions of the NPMC is to assemble and distribute seed and plants to meet foreign requests. Requests may come directly to the NPMC, to field plant materials center, or to plant materials specialists. Assembly of seed at the center prevents duplication since many times the person or organization places requests for the same material with several sources. It also allows the material to be shipped in one package, thus arriving at its destination as a unit.

When all seed or plants needed to fill a foreign request are acquired, proper paperwork is prepared and the material is transferred to the Plant Germplasm Quarantine Center of the Animal and Plant Health Inspection Service (APHIS) for inspection. When the material is cleared it is shipped to the requestor.

Listed below are the foreign shipments made during 1980, totalling 381 accessions sent to 30 countries:

Division of Plant Industry, Canberra City, Australia

Lotus corniculatus 'Winnar'

Pasture Research Station, Victoria, Australia

Agropyron elongatum 'Jose'

Lotus corniculatus 'Tana'

Vicia amphicarpa, PI-393825

Vicia amphicarpa, BN-21861

Plant Introduction Coordiantor, Brasilia, Brasil

Hemarthria altissima 'Bigalta'

Hemarthria altissima 'Redalta'

Brazisul AGRO Pecuaria Ltd., Porto Alegra, Brasil

Bouteloua gracilis 'Hachita'

Plant Industry Division, Lethbridge, Alberta, Canada

Elymus triticoides 'Shoshone'

Royal Botanical Gardens, Hamilton, Ontario, Canada

Robinia fertilis 'Arnot'

Butternut Farm, Markham, Ontario, Canada

Salix bockii, T-19398

Central Experiment Farm, Ottawa, Ontario, Canada

Bromus inermis 'Manchar' .

Seed Biology Laboratory, Ottawa, Ontario, Canada

Bromus biebersteinii 'Regar'

Koospol Co., Ltd., Praha, Czechoslovakia

Trifolium vesiculosum 'Amclo'

UNDP, San Domingo, Dominican Republic

Pueraria lobata, PI-186600

Colworth Laboratory, Sharnbrook, Bedford, England

Lupinus albifrons, PI-308042

Lupinus albus, PI-289160, PI-316276, PI-316278, PI-316279,
PI-316287, PI-338645, PI-368911, PI-368912,
PI-368913, PI-368914, PI-368915

Lupinus angustifolius, PI-280627, PI-283638, PI-289163
PI-316280, PI-316281

Lupinus arboreus, PI-393932

Lupinus aridus, PI-308041

Lupinus elegans, PI-185099

Lupinus hirsutus, PI-289167

Lupinus luteus, PI-289173, PI-316283, PI-316284, PI-316285
PI-316286, PI-430549

Lupinus mutabilis, PI-308050

Lupinus nanus, PI-308051

Lupinus ornatus, PI-308052

Lupinus pilosus, PI-292414

Lupinus polyphyllus, PI-414242

Lupinus reticulatus, PI-280628

Lupinus varius, PI-197574, PI-33649

Lupinus sp., NY-5218, NY-5277

Hurst Gunson Cooper Taber Ltd, Colchester, Essex, England

Oenothera biennis, T-2557, PMK-1561

Oenothera lacinata

Oenothera lamarckiana, T-2070

Oenothera speciosa, AM-4057

Hurst Gunson Cooper Taber Ltd., Witham, Essex, England

Agropyron spicatum 'Secar'

Cooperative Agricole Semences Quest, France

Bromus carinatus 'Cucamonga'

B. sub. nom. sitchensis, T-11339

Bromus unioloides 'Nakuru', PI-385317, PI-409139

Bromus willdenouii, PI-377533

Agency for International Development, Banjul, Gambia

Brachiaria brizantha, PI-292176

Cenchrus ciliaris, PI-271198, PI-414419, 'Higgins'

Chloris distichophylla, PI-421755

Chloris gayana 'Bell'

Digitaria mombasana, PI-406167

Digitaria vestita, PI-377758

Fingerhuthia sesleriaeformis, PI-203354, PI-299970

Panicum amaralum, PI-421136

Panicum clandestinum 'Tioga', T-4862

Panicum maximum, PI-410251, PI-410255

Panicum virgatum 'Alamo', PI-421901

Coxen Hole, Islas de la Bahia, Honduras

Astragalus cicer, PI-214095

Astragalus galegiformis, PI-186282

Astragalus hamosus, PI-311360

Astragalus macrorrhizus, PI-311364

Astragalus monspessulanus, PI-311366

Astragalus sinicus, PI-150557

Astragalus somaliensis, PI-188576

Agriculture and Fisheries Department, Kowloon, Hong Kong

Bouteloua gracilis, T-4503, 'Lovington', T-8318

Lathyrus sylvestris, PI-282562, PI-282765, PI-290715,
PI-355714

Panicum clandestinum, T-4862, T-16960, T-16961

Trifolium hirtum, PI-120079, PI-120122, PI-120124, PI-120125,
PI-120130, PI-120131, PI-120137, PI-120146,
PI-120179, PI-120188, PI-120198, PI-120231,
PI-120248, PI-121232, PI-121247, PI-284269,
PI-284270, PI-284272, PI-289673, PI-289674,
PI-311483, PI-311484, PI-311485, PI-311486,
PI-311487, 'Kondinin'

Vicia dasycarpa 'Lana', PI-205158, PI-249882, PI-308100

Vicia villosa, PI-206492, PI-222217, PI-232958, PI-234053,
PI-250796, PI-229960, PI-286529, PI-308123,
PI-314404, PI-338682, PI-340170, PI-340171,
PI-340172, PI-340173, PI-340174, PI-340175,
PI-340176, PI-383802

Ministry of Agriculture, Forestry Division, Israel

Robinia fertilis 'Arnot'

General Counsel, Court of Appeals, Bari, Italy

Pueraria lobata, PI-434246

University of Padua, Bolzano, Italy

Pueraria lobata, AM-3116

Comunita Montana, Borgo Val Di Taro, Italy

Pueraria lobata, PI-434246

Mr. Giancarlo Rinaldi, Caserta, Italy

Pueraria lobata, BN-22974

University of Florence, Florence, Italy

Astragalus cicer

Echinochloa crusgalli var. frumentacea 'Chiuapa'

Eragrostis curvula 'Catalina'

Pueraria phaseoides

Stipa viridula 'Green Stipa'

Mr. Sanvito Roberto, Milano, Italy

Pueraria lobata, BN-22974

Dr. Luciano del Frate, Parma, Italy

Pueraria lobata, AM-3116

Azienda Agricola, Quarto diAsti, Italy

Pueraria lobata, PI-434246

Sr. Gino Giovetti, Spilamberto, Italy

Pueraria lobata, AM-3116

Dr. Sergio Ciallie, Torino, Italy

Pueraria lobata, AM-3116

Dr. Mario Fasano, Torino, Italy

Pueraria lobata, BN-22974

Peace Corps, Kingston, Jamaica

Coronilla varia 'Penngift'

Eragrostis curvula 'Catalina'

Integrated Rural Development Project, Manchester, Jamaica

Coronilla varia 'Penngift'

Eragrostis curvula 'Catalina'

Mr. Richard Boucher, Peace Corps, Manchester, Jamaica

Coronilla varia 'Penngift'

Eragrostis curvula 'Catalina'

Mr. Mark Peters, Peace Corps, Manchester, Jamaica

Coronilla varia 'Penngift'

Eragrostis curvula 'Catalina'

Shizuoka University, Ohya, Shizuoka, Japan

Panicum maximum 'Coosa'

Panicum texanum, F-639

Agricultural Attache, American Embassy, Seoul, Korea

Agropyron cristatum 'Parkway'

Agropyron desertorum 'Nordan'

Agropyron elongatum 'Jose'

Dactylis glomerata 'Latar'

Festuca arundinacea 'Ky-31'

Lolium perenne 'Manhattan'

Lolium rigidum 'Wimmera 62'

Lotus tenuis, T-2494

Medicago sativa 'Williamsburg'

Phalaris tuberosa var. stenoptera 'Fino'

Trifolium repens, 'Dutch' and 'Ladino'

Benmore Station, Canterbury, New Zealand

Astragalus cicer 'Lutana'

Coronilla varia, 'Chemung', 'Emerald', and 'Penngift'

Lotus corniculatus 'Tana'

Medicago sativa 'Nomad'

Aokautere Science Center, Palmerston, New Zealand

Agropyron intermedium, 'Amur' and 'Oahe'

Agropyron trichophorum 'Luna'

Bromus bieberstenii 'Regar'

Bromus inermis, 'Lincoln' and 'Manchar'

Elymus junceus 'Vinall'

Lotus corniculatus 'Cascade'

Oryzopsis hymenoides 'Nezpar'

American Embassy, Lisbon, Portugal

Ornithopus sativus, PI-284143

Gradina Agrobotanica, St. Manastur, Romania

Trifolium repens, 'Ladino', Louisiana 'S-1', 'Nolin's', and
'Regal'

Department of Agriculture and Forestry, St. Helens Island, South Atlantic

Coronilla varia 'Chemung'

Eragrostis chloromelas 'Catalina'

Eragrostis curvula 'Morpa'

Lespedeza cuneata 'Interstate'

Portulacaria afra, PI-407530 and PI-407531

Robinia pseudoacacia, Commerical

Scottish Agricultural Industries Ltd., Midlothian, Scotland

Agropyron dasystachyum 'Critana'

Agropyron desertorum 'Nordan'

Agropyron elongatum 'Jose'
Agropyron inerme 'Whitmar'
Agropyron intermedium 'Greenar'
Agropyron riparium 'Sodar'
Agropyron sibiricum, PI-108434
Agropyron smithii 'Rosana'
Agropyron subsecundum, PI-371698
Agropyron trachycaulum 'Primer'
Agropyron trichophorum 'Luna'
Andropogon gerardi 'Kaw'
Andropogon halli 'Elida'
Bothriochloa caucasicus, PMT-588
Bothriochloa ischaemum 'KR'
Bouteloua curtipendula 'El Reno'
Bouteloua eripoda 'Nogal'
Bouteloua gracilis 'Lovington'
Bromus inermis 'Manchar'
Buchloe dactyloides, PI-421717
Elymus canadensis, PMT-4395
Elymus cinereus, P-15590
Elymus junceus 'Vinall'
Elymus triticoides, P-15594
Eragrostis curvula 'A-67'
Eragrostis lehmanniana 'A-68'
Eragrostis trichodes 'Bend'
Panicum virgatum 'Blackwell'

Phalaris arundinacea 'Ioreed'

Sorghastrum nutans 'Osage'

Sorghum sudanense 'Piper'

AID, American Embassy, Mogadishu, Somalia

Prosopis tamarugo, PI-441220

Embassy of South Africa, Washington, D. C.

Lotus corniculatus var. arvensis 'Kalo'

Lotus pedunculatus 'Marshfield'

Onobrychis viciifolia, PI-205200, PI-243227, PI-368036, T-6586

Starke-Ayres, Eppindust, South Africa

Agropyron spicatum 'Secar'

C. May and Company, Ltd., Johannesburg, South Africa

Bouteloua gracilis 'Hachita'

Department of Pasture and Forages, INIA-CRIDA-08, Badajoz, Spain

Agropyron cristatum, A-1770

Agropyron intermedium 'Amur'

Eragrostis curvula, A-67

Weibullsholm Plant Breeding Institute, Landskrona, Sweden

Bromus biebersteinii 'Regar'

Otto Havenstein Seeds Inc., Rafz, Switzerland

Bouteloua gracilis 'Hachita'

Agriculture Professor, Agriculture Center, Thailand

Coronilla varia 'Chemung'

Lathyrus sylvestris 'Lathco'

AID, Tunis, Washington, D. C.

Agropyron cristatum, A-1770

Trifolium vesiculosum, 'Amclo', 'Meechee', 'Yucchi'

Vicia dasycarpa 'Lana'

Institute of Agriculture, Merida, Venezuela

Astragalus cicer, 'Lutana', PI-214095, T-6508

Lespedeza cuneata, PI-82433, PI-90356, PI-173989, PI-18617,
PI-207719, PI-259459, PI-259460, PI-421873
PI-421872

Lespedeza stipulacea, T-6899, T-6901, T-6902, T-6903, T-6904
T-6905

Welsh Plant Breeding Station, Aberyystwyth, Wales

Dactylis glomerata 'Latar'

A.N.S. Burgett, Yaounde

Agropyron gerardi, C-119

Agropyron scoparius 'Pastura'

Atriplex canescens, NM-155

Bouteloua curtipendula, NM-28

Bouteloua eriopoda 'Nogal'

Bouteloua gracilis 'Hachita'

Eragrostis curvula, A-67M

Eragrostis lehmanniana, A-68

Eragrostis trichoides, A-11527

Hilaria jamesii 'Viva'

Oryzopsis hymenoides 'Paloma'

Panicum obtusum, A-13165

Sorghastrum nutans 'Llano'

Sporobolus airoides, NM-184

Sporobolus cryptandrus, A-16352

Sporobolus flexuosus, NM-73

Donald Gipe, Yaounde

Agropyron cristatum, A-1770
Agropyron desertorum, A-1874
Agropyron intermedium 'Amur'
Agropyron smithii 'Arriba'
Coronilla varia 'Penngift'
Eragrostis curvula 'Catalina'
Lespedeza cuneata 'Okinawa'
Melilotus officinalis, PI-289313
Panicum amorulum, PI-421136
Panicum ancepts, T-16955
Panicum antidotale, PI-185456
Panicum clandestinum, PI-413754
Panicum coloratum 'Kleingrass'
Panicum obtusum, T-2929
Panicum plenum, T-4612
Panicum texanum, T-3367
Panicum virgatum, PI-315725
Paspalum alcalinum, PI-337556
Paspalum conspersum, PI-237130
Paspalum dilatatum, PI-410286
Paspalum floridanum, PI-315730
Paspalum guenoarum, PI-337559
Paspalum malacophyllum, PI-315731 and T-16988
Paspalum nicorae 'Amcorae'
Paspalum notatum, PI-148996

Paspalum plicatulum, PI-353399
Paspalum pubiflorum v. glabrum, T-16993
Paspalum rojasii, PI-263381
Paspalum scrobiculatum, PI-198322
Paspalum tenellum, T-6588
Paspalum umbrosum, PI-203882
Paspalum urvillei, PI-365131
Pueraria lobata, PI-434246
Pueraria phaseoloides, T-7453
Sporobolus cryptandrus, T-3963
Trifolium incarnatum 'Frontier'

Livestock Credit and Procession Project, Sanaa, Yemen

Bouteloua curtipendula 'Vaughn'
Bouteloua eriopoda 'Nogal'
Bouteloua gracilis 'Lovington'
Fraxinus pennsylvanica 'Cardan'
Phleum pratense 'Eskimo'

Range Training Specialist, Sanaa, Yemen

Eragrostis lehmanniana, A-68
Heterpogon contortus, PI-441069
Penstemon grandiflora, PMK-1984
Sorghastrum nutans, PI-421594
Trichacne californica, T-3707

Accessions Planted - 1980

One hundred fifty-three different accessions were planted on the center during 1980. The plantings were made to:

1. Increase small amounts of available seed
2. Check identity
3. Reproduce aging seed in order to maintain viable seed in storage
4. Note plant performance

Grasses

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
T-10474	<u>Dactylis glomerata</u>	Norway
T-10475	<u>Dactylis glomerata</u>	Norway
T-11447	<u>Dactylis glomerata</u>	Romania
T-11464	<u>Dactylis glomerata</u>	Romania
T-11477	<u>Dactylis glomerata</u>	Romania
T-11492	<u>Dactylis glomerata</u>	Romania
T-12676	<u>Dactylis glomerata</u> ssp. <u>smithii</u>	Wales
T-12677	<u>Dactylis glomerata</u> ssp. <u>woronowii</u>	Australia
T-10476	<u>Dactylis polygama</u>	Denmark
T-11430	<u>Dactylis polygama</u>	Romania
T-12548	<u>Dactylis polygama</u>	W. Germany
T-12675	<u>Dactylis polygama</u>	W. Germany
T-10477	<u>Danthonia spicata</u>	Canada
T-10478	<u>Elymus arenarius</u>	Denmark
T-10479	<u>Elymus arenarius</u>	Norway
T-10480	<u>Elymus arenarius</u>	Norway

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
T-12326	<u>Elymus arenarius</u>	W. Germany
T-12680	<u>Elymus glaucus</u>	Canada
T-10481	<u>Elymus virginicus</u>	Canada
T-12947	<u>Elymus virginicus</u>	France
T-10486	<u>Lolium perenne</u>	Italy
T-11520	<u>Lolium perenne</u>	Romania
T-11521	<u>Lolium perenne</u>	Romania
T-11522	<u>Lolium perenne</u>	Romania
T-11698	<u>Lolium perenne</u>	Poland
T-12381	<u>Lolium perenne</u>	France
T-12682	<u>Lolium perenne</u>	Italy
T-12683	<u>Lolium perenne</u>	Italy
T-12684	<u>Lolium perenne</u>	Italy
T-12685	<u>Lolium perenne</u>	Romania
T-12686	<u>Lolium perenne</u>	Romania
T-12687	<u>Lolium perenne</u>	Romania
T-12688	<u>Lolium perenne</u>	Romania
T-12689	<u>Lolium perenne</u>	Italy
T-12690	<u>Lolium perenne</u>	Italy
T-12691	<u>Lolium perenne</u>	Italy
T-12692	<u>Lolium perenne</u>	Italy
T-12693	<u>Lolium perenne</u>	Italy
T-12694	<u>Lolium perenne</u>	Italy
T-12695	<u>Lolium perenne</u>	Italy
T-12696	<u>Lolium perenne</u>	Italy

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
T-12697	<u>Lolium perenne</u>	Italy
T-12698	<u>Lolium perenne</u>	Belgium
T-12699	<u>Lolium perenne</u>	Belgium
T-12700	<u>Lolium perenne</u>	Luxembourg
T-12701	<u>Lolium perenne</u>	Luxembourg
T-12702	<u>Lolium perenne</u>	France
T-12703	<u>Lolium perenne</u>	France
T-12704	<u>Lolium perenne</u>	France
T-12705	<u>Lolium perenne</u>	France
T-12706	<u>Lolium perenne</u>	France
T-12707	<u>Lolium perenne</u>	France
T-12708	<u>Lolium perenne</u>	Switzerland
T-12709	<u>Lolium perenne</u>	Switzerland
T-12710	<u>Lolium perenne</u>	Switzerland
T-12711	<u>Lolium perenne</u>	Switzerland
T-12712	<u>Lolium perenne</u>	Switzerland
T-12713	<u>Lolium perenne</u>	France
T-12714	<u>Lolium perenne</u>	France
T-12715	<u>Lolium perenne</u>	France
T-12716	<u>Lolium perenne</u>	France
T-12717	<u>Lolium perenne</u>	France
T-12718	<u>Lolium perenne</u>	France
T-12719	<u>Lolium perenne</u>	France
T-12720	<u>Lolium perenne</u>	Sweden
T-12721	<u>Lolium perenne</u>	W. Germany

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
T-12722	<u>Lolium perenne</u>	W. Germany
T-12723	<u>Lolium perenne</u>	Iran
T-12724	<u>Lolium perenne</u>	Hungary
T-12725	<u>Lolium perenne</u>	France
T-12993	<u>Lolium perenne</u>	France
T-10487	<u>Lolium temulentum</u>	Denmark
T-10488	<u>Lolium temulentum</u>	France
T-10489	<u>Lolium temulentum</u>	France
T-11523	<u>Lolium temulentum</u>	Romania
T-11699	<u>Lolium temulentum</u>	Poland
T-11728	<u>Lolium temulentum</u>	Switzerland
T-12725	<u>Lolium temulentum</u>	Switzerland
T-12726	<u>Lolium temulentum</u> var. <u>macrochaeton</u>	Switzerland
T-12727	<u>Lolium temulentum</u> var. <u>macrochaeton</u>	W. Germany
T-12728	<u>Lolium temulentum</u> var. <u>macrochaeton</u>	E. Germany
T-10490	<u>Paspalum dilatatum</u>	Denmark
T-10491	<u>Paspalum dilatatum</u>	France
T-10492	<u>Paspalum prostratum</u>	Denmark
T-10493	<u>Paspalum scrobiculatum</u>	Hungary
T-10494	<u>Paspalum stoloniferum</u>	Hungary
T-10495	<u>Paspalum vaginatum</u>	France
T-11169	<u>Phalaris aquatica</u>	Greece
T-11170	<u>Phalaris aquatica</u>	Greece
T-10496	<u>Phalaris arundinacea</u>	Denmark

Legumes and Others

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
202149	<u>Astragalus species</u>	Argentina
383604	<u>Astragalus species</u>	Turkey
T-10504	<u>Biserrula pelecinus</u>	Denmark
T-10505	<u>Biserrula pelecinus</u>	Crete
T-12837	<u>Biserrula pelecinus</u>	France
T-10506	<u>Coronilla coronata</u>	W. Germany
T-10507	<u>Coronilla juncea</u>	France
T-10508	<u>Coronilla parviflora</u>	Denmark
T-10509	<u>Coronilla varia</u>	Canada
T-10510	<u>Coronilla varia</u>	France
T-10511	<u>Coronilla varia</u>	W. Germany
T-10512	<u>Coronilla varia</u>	Belgium
T-10513	<u>Coronilla varia</u>	Hungary
T-11417	<u>Coronilla varia</u>	Romania
T-11476	<u>Coronilla varia</u>	Romania
T-11803	<u>Coronilla varia</u>	Switzerland
T-12314	<u>Coronilla varia</u>	France
T-12315	<u>Coronilla varia</u>	France
T-12673	<u>Coronilla varia</u>	E. Germany
T-12674	<u>Coronilla varia</u>	Hungary
T-13207	<u>Coronilla varia</u>	England
T-10514	<u>Desmodium canadense</u>	Canada
T-11751	<u>Desmodium canadense</u>	Switzerland
T-10515	<u>Dolichos bicolor</u>	Denmark

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
T-10516	<u>Dolichos</u> <u>cebra</u>	USSR
T-10517	<u>Dolichos</u> <u>lablab</u>	Denmark
T-12678	<u>Dolichos</u> <u>lablab</u>	Switzerland
T-13211	<u>Dolichos</u> <u>lablab</u>	England
T-10518	<u>Dolichos</u> <u>lablab</u> var. <u>leucocarpus</u>	Denmark
T-10519	<u>Dolichos</u> <u>leucomelas</u>	Denmark
T-10520	<u>Dolichos</u> <u>ornatus</u>	Denmark
T-10521	<u>Dolichos</u> <u>sesquipedalis</u>	Denmark
T-10525	<u>Lathyrus</u> <u>palustris</u>	Canada
T-12729	<u>Lotus</u> <u>pedunculatus</u>	Portugal
T-12730	<u>Lotus</u> <u>tenuis</u>	W. Germany
T-12731	<u>Lotus</u> <u>uliginosus</u>	France
T-12739	<u>Macroptilium</u> <u>atropurpurea</u>	Cuba
T-10565	<u>Medicago</u> <u>polymorpha</u>	Italy
T-10566	<u>Medicago</u> <u>polymorpha</u>	Portugal
T-11150	<u>Medicago</u> <u>polymorpha</u>	Crete
T-11151	<u>Medicago</u> <u>polymorpha</u>	Greece
T-11152	<u>Medicago</u> <u>polymorpha</u>	Greece
T-11153	<u>Medicago</u> <u>polymorpha</u>	Greece
T-11754	<u>Medicago</u> <u>polymorpha</u>	Switzerland
T-12415	<u>Medicago</u> <u>polymorpha</u>	Australia
T-12732	<u>Medicago</u> <u>polymorpha</u>	USSR
T-12733	<u>Medicago</u> <u>polymorpha</u>	Italy
T-12734	<u>Medicago</u> <u>polymorpha</u>	Crete
T-12735	<u>Medicago</u> <u>polymorpha</u>	Morocco

<u>PI or T Number</u>	<u>Name</u>	<u>Source</u>
T-12736	<u>Medicago polymorpha</u>	Bulgaria
T-12737	<u>Medicago polymorpha</u>	China
T-13220	<u>Medicago polymorpha</u>	England
T-10569	<u>Psoralea bituminosa</u>	France
T-11755	<u>Psoralea bituminosa</u>	Switzerland
T-13081	<u>Psoralea bituminosa</u>	Canary Islands
T-13082	<u>Psoralea bituminosa</u>	Canary Islands
T-13083	<u>Psoralea bituminosa</u>	France
T-13234	<u>Psoralea bituminosa</u>	England
T-12466	<u>Teramnus labialis</u>	France
T-12741	<u>Thermopsis montana</u>	Ireland
T-17273	<u>Vicia melanops</u>	USSR
349271	<u>Vicia melanops</u>	Germany
T-10599	<u>Vicia unijuga</u>	England

Special Projects - 1980

National Shoreline Site Selection Criteria

During 1980, the NPMC worked with the Army Corps of Engineers at Fort Belvoir, Virginia, to determine the site selection criteria (physical features) necessary to permit the use of vegetation to stabilize eroded areas in the tidal zone. After identifying over 140 tidal shoreline sites, a survey of the physical features was made at each location. An analysis of the data revealed that meaningful regional site selection criteria could be developed. The Corps of Engineers Research Center is presently working on refinement of the data.

Shoreline Erosion Demonstration Areas (Delaware Bay)

Working cooperatively with the Philadelphia District, Corps of Engineers, the NPMC assisted in planting and evaluating four Shore Erosion Advisor Panel (SEAP) plantings along the Delaware Bay. The program was initiated by an Act of Congress to demonstrate and evaluate shore erosion control techniques along the coastal plain of the United States. The Army Corps of Engineers is the prime agency for carrying out the project and for preparation of a final summary report to Congress this year.

Evaluation of Potential Drought Tolerant Orchardgrass (*Dactylis glomerata*) Ecotypes

At the request of the Kentucky Plant Materials Center, a project was established to evaluate drought tolerant orchardgrass accessions on a shallow shale area in West Virginia. The assembly was made by the Kentucky Center and consisted of 25 accessions collected in various counties of Virginia, West Virginia, and Maryland. These were planted to compare with the following standards:

'Jackson'	'Palestine'
'Potomac'	'Berber'
'Pennlate'	Common
'Va-70'	

In addition, 'Kentucky 31' tall fescue (*Festuca arundinacea*) was also included as a standard for comparison.

Three replications of the collection were established on a shaly ridge on the Robert Snyder farm about 7 miles north of Petersburg, West Virginia. All accessions were satisfactorily established in all replications except T-7231 and 'Palestine' which had poor stands. The accessions will be evaluated in 1981 and 1982 for drought tolerance, disease, and insect resistance and forage production.

